DISTRICT IRRIGATION PLAN

Hailakandi, ASSAM

NABCONS

NABARD CONSULTANCY SERVICES

District Irrigation Plan, 2016-2021

Hailakandi, Assam

NABARD CONSULTANCY SERVICES PVT. LTD.

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Introduction

Background

Preparation of decentralized area specific district planning process visualized in various plans took concrete shape through the years and initiatives like specific guidelines on methodologies and processes for preparation of district plans; framework for preparation of perspective plan, medium term and annual plans by then planning commission in 1969 and the 73rd and 74th constitutional amendments conferring constitutional status to Panchayats at district and sub district level; local self-government in urban areas; constitution of district planning committee to consolidate the plans prepared at Panchayats and municipalities and prepare a draft development plan for the whole district.

The decentralized planning process was further strengthened through emphasis by planning commission on preparation of district level plans and making it an integral part of the process of preparation of the state's 11th five year plan. The Planning commission issued guidelines in August 2006 for preparation of the district plans. The guidelines define the District Planning as 'the process of preparing an integrated plan for the local government sector in a district taking into account the resources (natural, human and financial) available and covering the sectoral activities and schemes assigned to the district level and below and those implemented through local governments in a state. The document that embodies this statement of resources and their allocation for various purposes is known as the District Plan".

Government of India through a resolution in National Development Council on 29th May 2007 conceived a special Additional Central Assistance Scheme (ACAS) to address the slow growth of agriculture and allied sectors by incentivizing states to draw up plans for their agriculture sectors more comprehensively. The NDC resolution states "GoI will introduce a new Additional Central Assistance Scheme to incentivize states to draw up plans for their agriculture sector more comprehensively, taking agro-climatic conditions, natural resource issues and technology into account, and integrating livestock, poultry and fisheries, etc. This will involve a new scheme for Additional Central Assistance (ACA) to State Plans, administered by the Union Ministry of Agriculture over and above its existing Centrally Sponsored Schemes, to supplement the State-specific strategies including special schemes for beneficiaries of land reforms. The newly created National Rainfed Area Authority will, on request, assist States in planning for rainfed areas".

The NDC in its resolution advised the states to prepare a comprehensive district agriculture plans (C-DAP) that will fully utilize available resources and will include allied agriculture sectors. Further, GOI issued a manual on preparation of comprehensive district agriculture plans to help the states prepare C-DAP. As per these guidelines, the objective of district planning is 'to design an integrated and participatory action plan for the development of local area in general and agriculture and allied sectors in particular'. The objectives of Comprehensive District Agriculture Plan (C-DAP) are:

- To prepare a Comprehensive District Agriculture Plan (C-DAP) through participatory process involving various organisations and stakeholders.

- To enable optimum utilisation of scarce natural, physical & financial resources.
- To assess and plan for the infrastructure required to support the agriculture development.
- To establish linkages with the required institutional support services, like credit, technology transfer, ICT, research etc.
- To evolve an action plan for achieving sustainable agricultural growth with food security and cropping system that will improve farmers' income.

The guidelines required the state/district authorities to (i) ensure that the agricultural plans are prepared for the district and then integrated into the agricultural plans of the State based on the agro-climatic conditions, availability of technology, trained manpower and natural resources; (ii) local needs / crops / feed and fodder / animal husbandry / dairying / fisheries / priorities are reflected in the plan; (iii) productivity gaps for important crops and livestock and fisheries are reduced; and (iv) the returns to the farmers from these are maximized.

The latest move in the process of strengthening of decentralized planning process was the Government of India guidelines issued in 2015 in the form of a template for the preparation of District Irrigation Plan (DIP) and State Irrigation Plan (SIP) as part of the Pradhan MantriKrishiSinchayeeYojana (PMKSY) program and made the preparation of DIP and SIP mandatory for the states to receive funds from the program. The present report is a product of these long drawn efforts of Government of India to strengthen the decentralized planning process in the country focusing on the vital resource i.e., water.

Water is of vital importance for human & animal life, maintenance of ecological balance and promotion of developmental activities. Considering its vital importance and ever increasing demand for water, in the face of population growth, urbanization & industrialization and considerations of climatic change, making water, an increasingly a scarce resource, available to multiple uses, planning and management of this vital resources, utilization of water economically, optimally and equitably assumes greater importance.

According to the 12th Five year Plan the water budget estimates of India by Ministry of Water Resources suggests an availability of 1123 billion cubic meters (BCM) against a current estimated demand of 710 BCM. The Standing Committee of the Ministry of Water Resources estimates that this water demand will rise to 1093 BCM by 2025. Though the existing water availability in the immediate future seems to be adequate, with the near constant supply of water resources in the face of increasing demand on account of population growth, urbanisation and industrialization will strain the water supply-demand balance.

The per capita water availability which stood at 5,177 cubic meters in 1951 was reduced to 1820 cubic meters in 2001 while the international prescribed limit is 1800 cubic meters. The projected per capita availability of water is 1341 cubic meters in 2025 and 1140 cubic meters in 2050 suggesting shortage of water in the medium term[1]. Further, the all India water balance estimates does not reflect the variations in water balance across time and space- certain areas having a positive water balance and the others facing acute shortage. The problem is further accentuated by water quality related issues.

With the abundant surface and ground water supply in the first five decades since independence, more than 80 percent of the total available water resources were allocated for irrigation purposes and the rest meeting

[1]Ministry of Water Resources (2011), Strategic Plan for Ministry of Water Resources, Government of India, New Delhi.

the domestic and industrial demands. In a recent studyon the demand for water from agriculture, domestic and industrial uses in 2000, 2025 and 2050 seems to suggest that domestic demand (34 BCM in 2000, 66 BCM in 2025 and 101 BCM in 2050) and industrial demand (42 BCM in 2000, 92 BCM in 2025 and 161 BCM in 2050) for water will utilize the total balance water available while agriculture demand for water will be (605 BCM in 2000, 675 BCM in 2025 and 637 BCM in 2050). This change is partly because of the changing sectoral contributions of India's GDP and also partly because of dynamics of irrigation development in the country where the initial expansion in area under irrigation is propelled by the availability of abundant water resources and availability of good quality land. This is no longer the case in many of the states where the availability of land and water are serious constraints for further expansion of irrigation. Further, as per the erstwhile planning commission up to March 2012 out of 141 million hectares of net sown area in the country 114 (or 81%) million hectares is Irrigation Potential Created (IPC) and 88 (or 62%) million hectares is Irrigation Potential Utilised (IPU) leaving almost 20% of irrigated potential unutilized. This leaves 40 percent of the net sown area in the country dependent on rainfall which makes farming a high risk and less productive.

The competing demands for water resources and the emerging issues and concerns were to be addressed through certain basic principles and commonality in approaches in dealing with planning, development and management of water resources[2] under an Integrated Water Resource Management framework. The main objectives of water resource management as delineated in National Water Policy 2012 are:

a) Planning, development and management of water resources need to be governed by common integrated perspective considering local, regional, State and national context, having an environmentally sound basis, keeping in view the human, social and economic needs.
b) Principle of equity and social justice must inform use and allocation of water.
c) Good governance through transparent informed decision making is crucial to the objectives of equity, social justice and sustainability. Meaningful intensive participation, transparency and accountability should guide decision making and regulation of water resources.
d) Water needs to be managed as a common pool community resource held, by the state, under public trust doctrine to achieve food security, support livelihood, and ensure equitable and sustainable development for all.
e) Water is essential for sustenance of eco-system, and therefore, minimum ecological needs should be given due consideration.
f) Safe Water for drinking and sanitation should be considered as pre-emptive needs, followed by high priority allocation for other basic domestic needs (including needs of animals), achieving food security, supporting sustenance agriculture and minimum eco-system needs. Available water, after meeting the above needs, should be allocated in a manner to promote its conservation and efficient use.
g) All the elements of the water cycle, i.e., evapo-transpiration, precipitation, runoff, river, lakes, soil moisture, and ground water, sea, etc., are interdependent and the basic hydrological unit is the river basin, which should be considered as the basic hydrological unit for planning.
h) Given the limits on enhancing the availability of utilizable water resources and increased variability in supplies due to climate change, meeting the future needs will depend more on demand management, and hence, this needs to be given priority, especially through (a) evolving an agricultural system which

[2]Ministry of Water Resources, National Water Policy, 2012, Government of India, New Delhi.

economizes on water use and maximizes value from water, and (b) bringing in maximum efficiency in use of water and avoiding wastages.

i) Water quality and quantity are interlinked and need to be managed in an integrated manner, consistent with broader environmental management approaches inter-alia including the use of economic incentives and penalties to reduce pollution and wastage.

j) The impact of climate change on water resources availability must be factored into water management related decisions. Water using activities need to be regulated keeping in mind the local geo climatic and hydrological situation.

Government of India launched Pradhan MantriKrishiSinchayeeYojana (PMKSY) to address the constraints in providing assured irrigation as well as increasing efficiency and productivity of current water use to bring more prosperity to the rural areas. Priorities of Government of India were reflected in the Hon'ble President's address to the joint Session of the Parliament of 16thLok Sabha where he indicated that "***Each drop of water is precious. Government is committed to giving high priority to water security. It will complete the long pending irrigation projects on priority and launch the 'Pradhan MantriKrishiSinchayeeYojana' with the motto of 'HarKhetKoPani'. There is a need for seriously considering all options including linking of rivers, where feasible; for ensuring optimal use of our water resources to prevent the recurrence of floods and drought. By harnessing rain water through 'Jal Sanchay' and 'Jal Sinchan', we will nurture water conservation and ground water recharge. Micro irrigation will be popularised to ensure 'Per drop-More crop***".

PMKSY has been approved with an indicative outlay of Rs.50,000 crore over a period of five years from 2015-16 to 2019-20. The programme is an amalgamation of on-going schemes of Ministry of Water Resources, River Development and Ganga Rejuvenation, Ministry of Agriculture & Cooperation and Ministry of Rural Development. The existing schemes AIBP, CADWM, MI, SWMA, Watershed& Convergence with MGNREGA were brought together under the umbrella program of PMKSY. Further the scheme seeks convergence with scheme likeMahatma Gandhi National Rural Employment Guarantee Scheme (MGNRES), RashtriyaKrishiVikasYojana (RKVY), Jawaharlal Nehru National Solar Mission and Rural Electrification programmes (JLNNSM&REP), Rural Infrastructure Development Fund (RIDF), Members of Parliament Local Area Development Scheme (MPLAD), Members of Legislative Assembly Local Area Development Fund (MLALAD), Local Body Funds (LBF), Working Plan of State Forest Department (WPSFD) etc. The PMKSY will be implemented in an area development mode only by adopting a decentralized state level planning and projectised execution structure that will allow the state to draw up their own irrigation development plans based on DIPs and SIPs with a horizon of 5-7 years. The program will be implemented as part of RashtriyaKrishiVikasYojana (RKVY) with state agriculture department acting as the State Nodal Agency. However, the implementing departments for the four components like AIBP, PMKSY (HarKhetKoPani), PMKSY (Per drop more crop) and PMKSY (watershed development) will be decided by the respective program ministry/department.

The funds under this program would be provided to the states as per the pattern of assistance of Centrally Sponsored Schemes (CSS) decided by the Ministry of Finance and NITI Aayog. During 2015-16 the existing pattern of assistance of ongoing scheme was continued. An outlay of Rs. 50,000 crore has been approved for 2015-20. The financial assistance provided to the state governments from this centrally sponsored scheme is subject to fulfillment of certain conditions.Firstly, a state will become eligible to access PMKSY fund only if it has

prepared the District Irrigation Plans (DIP) and State Irrigation Plan (SIP), excepting for the initial year, and the expenditure in water resource development for agriculture sector in the year under consideration is not less than the baseline expenditure, which is defined as the average of the expenditure in irrigation sector irrespective of the department in the state plan in three years prior to the year under consideration. Secondly, States will be given additional weightage for levying charges on water and electricity for irrigation purposes, so as to ensure sustainability of the programme. Thirdly, interstate allocation of PMKSY fund will be decided based on

- Share of percentage of unirrigated area in the state vis-à-vis national average including prominence of areas classified under Desert Development Programme (DDP) and Drought Prone Area Development Programme (DPAP)
- Increase in percentage share of expenditure on water resource development for agriculture sector in State Plan expenditure in the previous year over three years prior to it and
- Improvement in irrigation efficiency in the state.

Vision

The overreaching vision of Pradhan MantriKrishiSinchayeeYojana (PMKSY) will be to ensure access to some means of protective irrigation to all agricultural farms in the country, to produce 'per drop more crop', thus bringing much desired rural prosperity.

Objective

The objectives of the PMKSY are to:

a) Achieve convergence of investments in irrigation at the field level (preparation of district level and, if required, sub district level water use plans).
b) Enhance the physical access of water on the farm and expand cultivable area under assured irrigation (HarKhetkoPani),
c) Integration of water source, distribution and its efficient use, to make best use of water through appropriate technologies and practices.
d) Improve on-farm water use efficiency to reduce wastage and increase availability both in duration and extent,
e) Enhance the adoption of precision-irrigation and other water saving technologies (More crop per drop).
f) Enhance recharge of aquifers and introduce sustainable water conservation practices
g) Ensure the integrated development of rainfed areas using the watershed approach towards soil and water conservation, regeneration of ground water, arresting runoff, providing livelihood options and other NRM activities.
h) Promote extension activities relating to water harvesting, water management and crop alignment for farmers and grass root level field functionaries.
i) Explore the feasibility of reusing treated municipal waste water for peri-urban agriculture, and
j) Attract greater private investments in irrigation.

Strategy/approach

To achieve these objectives PMKSY adopted strategies that include

a) Creation of new water sources; repair, restoration and renovation of defunct water sources; construction of water harvesting structures, secondary & micro storage, groundwater development, enhancing potentials of traditional water bodies at village level like Jal Mandir (Gujarat); Khatri, Kuhl (H.P.); Zabo (Nagaland); Eri, Ooranis (T.N.); Dongs (Assam); Katas, Bandhas (Odisha and M.P.) etc.
b) Developing/augmenting distribution network where irrigation sources (both assured and protective) are available or created;
c) Promotion of scientific moisture conservation and run off control measures to improve ground water recharge so as to create opportunities for farmers to access recharged water through shallow tube/dug wells;
d) Promoting efficient water conveyance and field application devices within the farm viz, underground piping system, Drip & Sprinklers, pivots, rain-guns and other application devices etc.;
e) Encouraging community irrigation through registered user groups/farmer producers' organisations/NGOs; and
f) Farmer oriented activities like capacity building, training and exposure visits, demonstrations, farm schools, skill development in efficient water and crop management practices (crop alignment) including large scale awareness on more crop per drop of water through mass media campaign, exhibitions, field days, and extension activities through short animation films etc.

Programme Components

PMKSY has following four components:

1. **Accelerated Irrigation Benefit Programme (AIBP):** to focus on faster completion of ongoing Major and Medium Irrigation including National Projects.

2. **PMKSY (HarKhetkoPani)**: This component focuses on-

a) Creation of new water sources through Minor Irrigation (both surface and ground water)
b) Repair, restoration and renovation of water bodies; strengthening carrying capacity of traditional water sources, construction rain water harvesting structures (Jal Sanchay);
c) Command area development, strengthening and creation of distribution network from source to the farm;
d) Ground water development in the areas where it is abundant, so that sink is created to store runoff/ flood water during peak rainy season.
e) Improvement in water management and distribution system for water bodies to take advantage of the available source which is not tapped to its fullest capacity (deriving benefits from low hanging fruits). At least 10% of the command area to be covered under micro/precision irrigation.
f) Diversion of water from source of different location where it is plenty to nearby water scarce areas, lift irrigation from water bodies/rivers at lower elevation to supplement requirements beyond IWMP and MGNREGS irrespective of irrigation command.
g) Creating and rejuvenating traditional water storage systems like Khatri, Kuhl etc. at feasible locations.

3. **PMKSY (Per Drop More Crop):**

a) Programme management, preparation of State/District Irrigation Plan, approval of annual action plan, Monitoring etc.
b) Promoting efficient water conveyance and precision water application devices like drips, sprinklers, pivots, rain-guns in the farm (Jal Sinchan);
c) Topping up of input cost particularly under civil construction beyond permissible limit (40%), under MGNREGS for activities like lining inlet, outlet, silt traps, distribution system etc.
d) Construction of micro irrigation structures to supplement source creation activities including tube wells and dug wells (in areas where ground water is available and not under semi critical/ critical/ over exploited category of development) which are not supported under AIBP, PMKSY (HarKhetkoPani), PMKSY (Watershed) and MGNREGS as per Taluka/district irrigation plan.
e) Secondary storage structures at tail end of canal system to store water when available in abundance (rainy season) or from perennial sources like streams for use during dry periods through effective on-farm water management;
f) Water lifting devices like diesel/ electric/ solar pumpsets including water carriage pipes, underground piping system.
g) Extension activities for promotion of scientific moisture conservation and agronomic measures including cropping alignment to maximise use of available water including rainfall and minimise irrigation requirement (Jal Sarankchan);
h) Capacity building, training and awareness campaign including low cost publications, use of pico projectors and low cost films for encouraging potential use water source through technological, agronomic and management practices including community irrigation.
i) The extension workers will be empowered to disseminate relevant technologies under PMKSY only after requisite training is provided to them especially in the area of promotion of scientific moisture conservation and agronomic measures, improved/ innovative distribution system like pipe and box outlet system, etc. Appropriate Domain Experts will act as Master Trainers.
j) Information Communication Technology (ICT) interventions through NeGP-A to be made use in the field of water use efficiency, precision irrigation technologies, on farm water management, crop alignment etc. and also to do intensive monitoring of the Scheme.

4. PMKSY (Watershed Development):

a) Effective management of runoff water and improved soil & moisture conservation activities such as ridge area treatment, drainage line treatment, rain water harvesting, in-situ moisture conservation and other allied activities on watershed basis.
b) Converging with MGNREGS for creation of water source to full potential in identified backward rainfedTalukas including renovation of traditional water bodies

Rationale/ Justification

In reference to the status and need of irrigation, the water resource management including irrigation related priorities was identified for Sirmour district by the peoples' representatives of district with support from administration and technical experts. For instance the reports of Strategic Research and Extension Plan (SREP) prepared under ATMA program, Comprehensive District Agriculture Plan (C-DAP) prepared as part of

RashtriyaKrishiVikasYojana (RKVY), Potential Linked Credit Plans (PLP) of NABARD and the Integrated District Development Plan etc. identified number of irrigation related issues for Sirmour district including (i) promoting water use efficiency through sprinkler and drip irrigation; (iii) promoting protected polyhouse cultivation to minimize risk factors and enhance quality and productivity; (iv) Improvement of on-farm water delivery and efficiency of existing irrigation systems; (v) promotion of soil conservation of arable & non-arable land through engineering measures; (vi) creation of new water harvesting structures, check dams, ponds, tanks, etc (vii) increase the forest cover in the district and (viii) land improvement measures.

Methodology

During the course of preparation of District Irrigation Plan (DIP) the team visited thedistrict to collect data and have interaction with all the stakeholders. Methodology adopted to prepare DIP is outlined in brief as under:

a) Collection of primary and secondary data from field from various sources including published documents and websites.
b) Various meetings were held to obtain ground level realities and data from key personnel/stakeholders through structured, unstructured interviews, focused group discussions etc.
c) Meetings with State Government departments and related institutions were held
d) Meeting was also held with State Level authorities.
e) GIS maps of the areas/clusters were studied to understand the land morphology, topography of the district.
f) Focused group discussions and interaction with agriculture officers, horticulture officers, soil conservation officers, extension officers, rural development department, animal husbandry department, irrigation officers both at Talukas anddistrict level for identifying the key issues and focus areas of the region.
g) Discussion with NABARD officer of the district was also held during the visit.

On the basis of detailed discussion and analysis of data, the team arrived at the projections of various components of PMKSY and Department wise plan for four years from 2016-17 to 2019-20 as detailed in the plan.

Chapter 1

General Information of the District

Hailakandi district is one of the three districts of the Barak valley. The other two being Cachar and Karimganj.It is opined that in ancient days, the old Cachar district was divided into a few smaller nations and each nation was ruled by an independent ruler. It is also believed that the Halam tribe people of Kuki origin were mostly inhabited in present Hailakandi district. Hence it was regarded as a Kuki state. The word 'Hala' denotes to God in Kuki language and Kundi refers to "Parameswara" or the land of "Parameswara". Thus, the word 'Hala-Kundi" means "Kingdom of God". Perhaps, the word 'Halakundi' was changed to 'Halla-Kandi' during Kachari rule and finally during the British rule it was converted into its present term 'Hailakandi'.

It is believed that the present Hailakandi district was the kingdom of Kuki tribes until 1568 A.D. and the whole kingdom was under the control of Tripura administration. Jatinga and Hailakandi were formed into a kingdom during 16th A.D. and it was known to be as "Jayatungabarsha". Loknath and Marundanath had been discovered as the names of two kings by the inscription found in two copper plates. Adinath, Shrinath and Bhabanath were the ancestors of above two kings. The symbol inserted in the copper plate of Marundanath reveals an idol of Lakhsmi, the goddess of wealth and an ox the carrier of Lord Siva. It is assumed that these kings belong to Nath dynasty and were the worshipers of Lord Siva. The Roya family worshiped Goddess Lakshmi as their special goddess.

From the two other brick inscriptions discovered on the bank of 'Rak-vata' or "ShakwalaDighi" (tank) about 3 kms away from Lalabazar that Maharaja Harish Chandra Narayan had been ruling over this country up to 1490 saka or 1568 A.D. It can be said that the Kacharis did not come to Hailakandi which was under the Tripura administration up to 1568 A.D and were inhabited by Kuki.

In the battle of Maibong, Kachari king Tamradhway was defeated by the Ahom, King Rudra Sinha in 1906 and subsequently the king left his capital and took shelter at Khaspur in the plains of Cachar. It is believed that the Kachari princes seemed to have settled in the plains of Cachar permanently from this time. The king Suradarpa Narayan, son of Tamradhwaj, constructed many palaces and temples in Khaspur and the kingdom was named as 'Hidimba kingdom'.

A sizeable portion of Brahims and high caste people from Koch-Behar, Tripura and Sylhet came to the Royal court of Kachari kingdom at Khaspur for their livelihood and the king patronised them all in all respects. The king had encouraged equally all immigrants who had come from Sylhet, Bengal and other to the newly established capital for their settlement. The cultivators were also helped to encroach upon the Tripuri territory in the Dhaleswari Valley which consisted the most area of present Hailakandi district. Mr. C. A. Sopitt also admitted that the Kacharis were migrated to the plains of Cachar only in 1750 and king Suradarpa and his successors ruled over it. It is therefore, believed that present Hailakandi district came under Kachari kingdom only after 1750 A.D. The district Hailakandi as a part of old Cachar district was annexed to the British territory in 1832 and the central Cachar and a part of hill tracts of Cachar were finally annexed by the British in 1833. The district was included in the Commissionership of Dacca in 1835 and Captain Fisher was posted as Deputy Commissioner with the power of a Magistrate. The Judge of Sylhet acted as a session Judge of Cachar. However, in 1854 the northern part of Cachar which was already under the British was annexed to the district of Nowgong (Nagoan). In 1867 with the formation of Naga Hills district, this tract was partitioned between the district of Nowgong and Cachar.

At that time the district consisted of three Sub-Divisions, North Cachar, a hilly area of 4276 km² and two plains Sub-Divisions of Silchar and Hailakandi with 4967 km² Later in 1951, with the constitution of United Mikir and North Cachar Hills, the North Cachar tract was separated from Cachar and the loss having been substantiated by adding Karimganj sub - division with parts of old Karimganj P.S., Badarpur, Ratabari and PatharKandi P.S. from the independent district Sylhet.

1.1 District Profile

The District is located between latitudes north 24º41' and 24º68' and between longitudes east 92º34' and 92º57'. District was created on 01/10/1989. Hailakandi consists of five developmental blocks: Algapur, Hailakandi, Lala, Katlicherra& South Hailakandi. The District consisting of four Revenue Circles namely: Algapur, Hailakandi, Lala & Katlicherra. The district has 62 Nos of GaonPanchayat and 331 Nos of Revenue Villages, 01 Municipality Board and 2 Nos Town Committees. There is also a small township at 'Hindustan Paper Mill' area at Panchgram in Algapur Dev. Block. The Connectivity of the district consists of road NH-53 and NH-154 and Railway (Broad Gauge under construction). Nearest Airport is Kumbhirgram airport which is 83 Km from the district headquarter. The prime geographical character that forms the topographical features of Hailakandi is the river Barak and its tributaries. The river spread rich alluvial plains across the length and breadth of three southern districts of Assam. There are two major rivers flowing through the district namely Katakhal&Dhaleswari. Also, there are two small rivers named Pola&Jita.There are two reserved forests in Hailakandi district, the Inner line Reserved Forest and Katakhal Reserved Forest. The southern part was also recommended as Dhaleswari Wildlife Sanctuary.

Comparative Table of Demographic Details of Hailakandi District		
Description	**2011 Census**	**2001 Census**
Actual Population	659,296	542,872
Male	337,890	280,513
Female	321,406	262,359
Population Growth	21.45%	20.89%
Area Sq. Km	1,327	1,327
Density/km2	497	409
Proportion to Assam Population	2.11%	2.04%
Sex Ratio (Per 1000)	951	935
Child Sex Ratio (0-6 Age)	954	927
Average Literacy	74.33	59.64
Male Literacy	80.74	68.24
Female Literacy	67.60	50.46
Total Child Population (0- 6 Age)	111,278	100,962
Male Population (0- 6 Age)	56,936	52,400
Female Population (0- 6 Age)	54,342	48,563
Literates	407,366	3,872,120
Male Literates	226,836	2,136,829
Female Literates	180,530	1,735,291
Child Proportion (0-6 Age)	16.88%	18.60%
Boys Proportion (0-6 Age)	16.85%	18.68%
Girls Proportion (0-6 Age)	16.91%	18.51%

Source: Census of India 2011

District Map

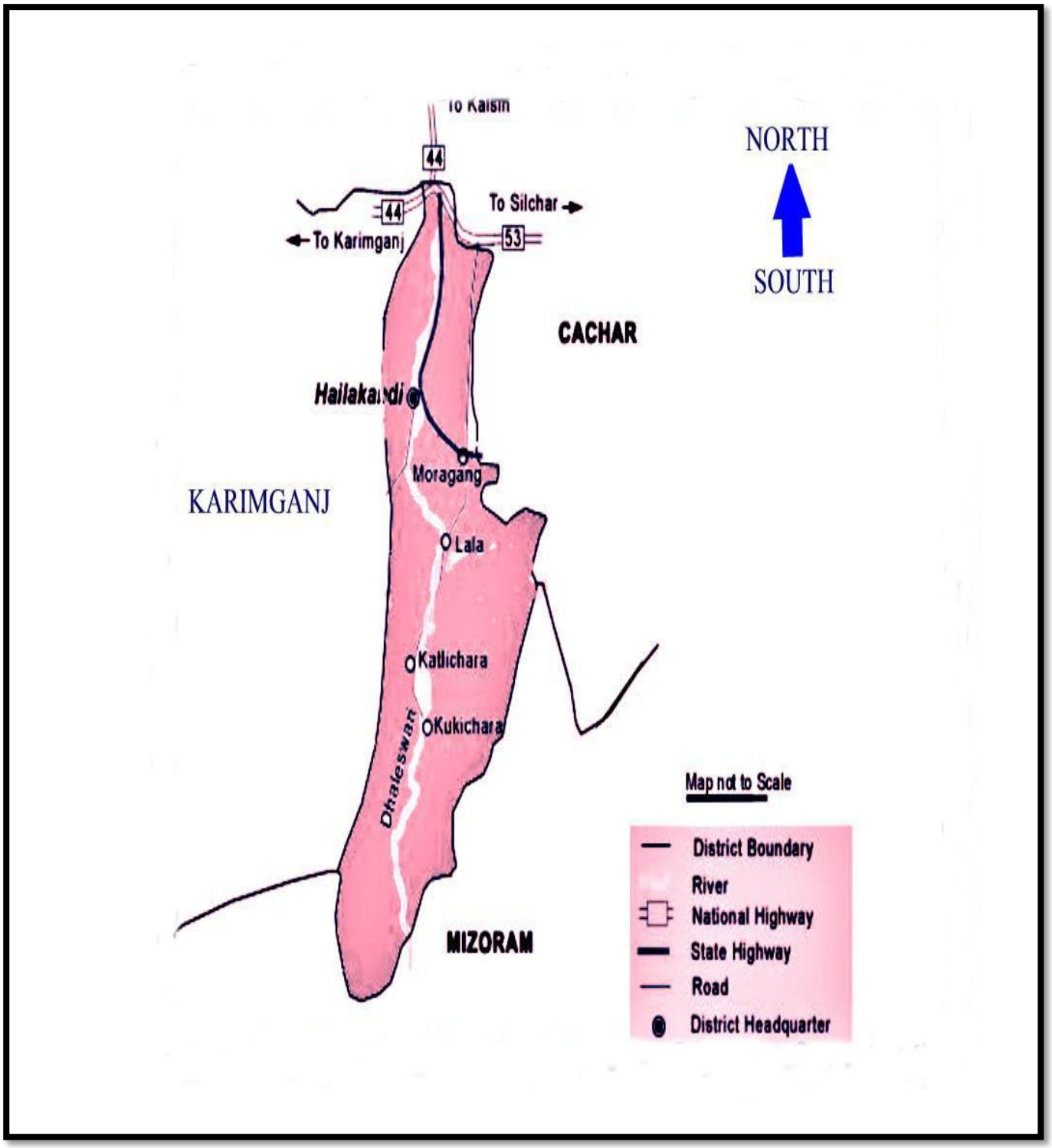


Table 1.1. General profile of Hailakandi

Name of the District	District Code	Latitude	Longitude
Hailakandi	318	24° 41'N	92° 34'E

Source: Census of India, 2011

Administrative setup of Hailakandi District

The Deputy Commissioner of the District is the overall in charge of the administration of the entire district. He also acts as the Collector in case of Revenue matters, as a District Magistrate in case of maintenance of Law and Order and General Administration, as a District Election Officer in case of conduct of Election, as a Principal Census Officer while conducting Census, and so on. A number of Officers, like Additional Deputy Commissioners, Sub-divisional Officers, Extra Assistant Commissioners and others assist the Deputy Commissioner is looking after the administration of the district. At lower level each sub-division is headed by one Sub-Divisional Officer whereas under him there will be Revenue Circle Officers for each revenue circles who are responsible for the entire administration of the area under their respective revenue circle.

The district Hailakandi is situated in the Barak Valley region of Assam. Hailakandi district has no any Sub-Division. It comprises 4 Revenue Circle with 331 villages. It has 5 Community Development Blocks. There is no any jurisdictional changes taken place during 2001-2011. The total area in the district is 1327 square Kms.In terms of area Hailakandi ranks 24th. The district has 3 towns (2 statutory towns and 1 census towns).Hailakandi MB is a major town of the district. The other urban components include Lala TC and H.P.C. Township which is a Census Town.

1.2 Demography

The total population of the district 6,59,296 as per ther block level data and out of which 6, 11,156 lived in rural areas and 48,140 in urban area. The population density is 497 per sq. km and sex ratio is of 951 female per 1000 males. The Schedule castes comprise 65942 (10.72%), Schedule Tribes 619 (0.10%), other backward and general castes 587946.

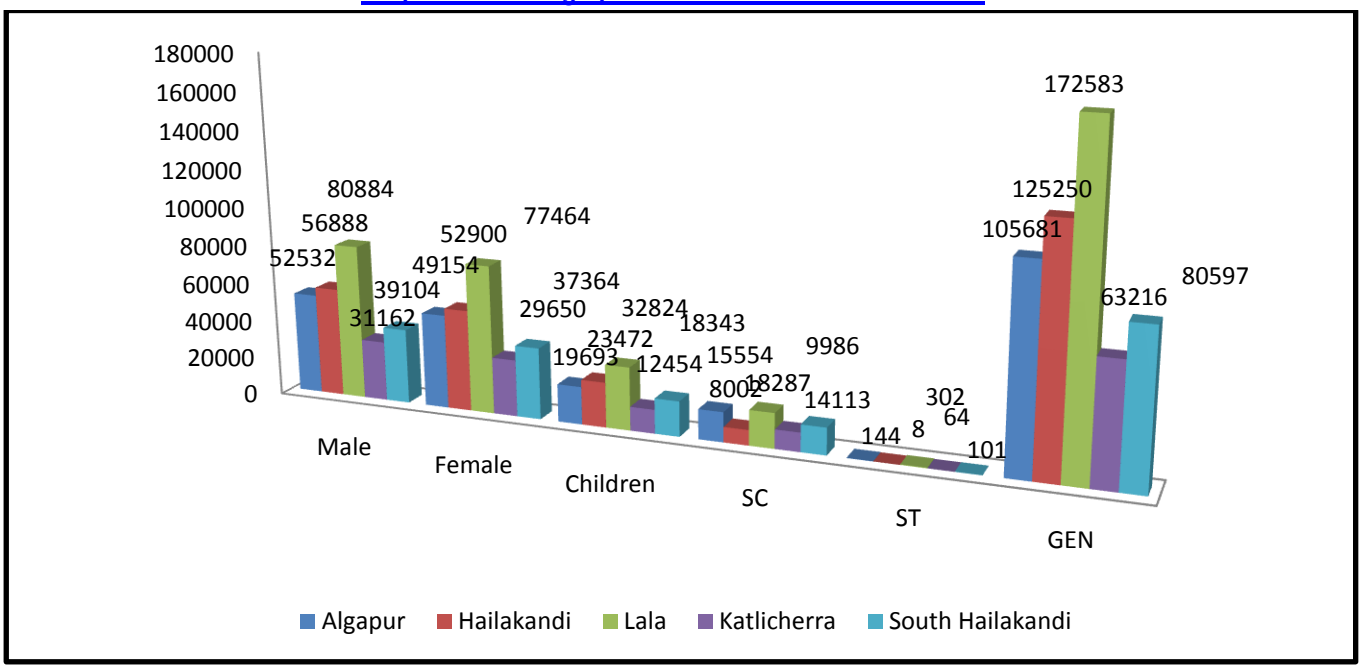
It is reflected from table 1.2 that total population of the district is **6,59,296**out of which **270570** male and**256532** female people. Lala Block reserves the highest population and Katlicherra Block reserves the lowest population.

Table: 1.2 Block wise Population Statistics of Hailakandi District

Name of the Block	Population				Scheduled Caste		Schedule Tribe		General		Total	
	Male	Female	Children	Total	No. of House Hold	No. of Member	No. of House Hold	No. of Member	No. of House Hold	No. of Members	No. of House Hold	No. of Members
Algapur	52532	49154	19706	121392	3109	15554	26	144	23648	105681	26783	121379
Hailakandi	66888	62900	36710	166498	1597	8002	2	8	28341	125250	29922	133260
Lala	80884	77464	44791	203139	3658	18287	61	302	38425	172583	42144	191172
Katlicherra	31162	29650	12598	73410	1996	9986	14	64	13317	63216	15327	73266
South Haikalandi	39104	37364	18389	94857	2825	14113	23	101	16800	80597	19648	94811
TOTAL	**270570**	**256532**	**132194**	**659296**	**13185**	**65942**	**126**	**619**	**120531**	**592735**	**133824**	**659296**

Source: ***Census, 2011***

Graph: 1.2: Demographic Pattern of Hailakandi District



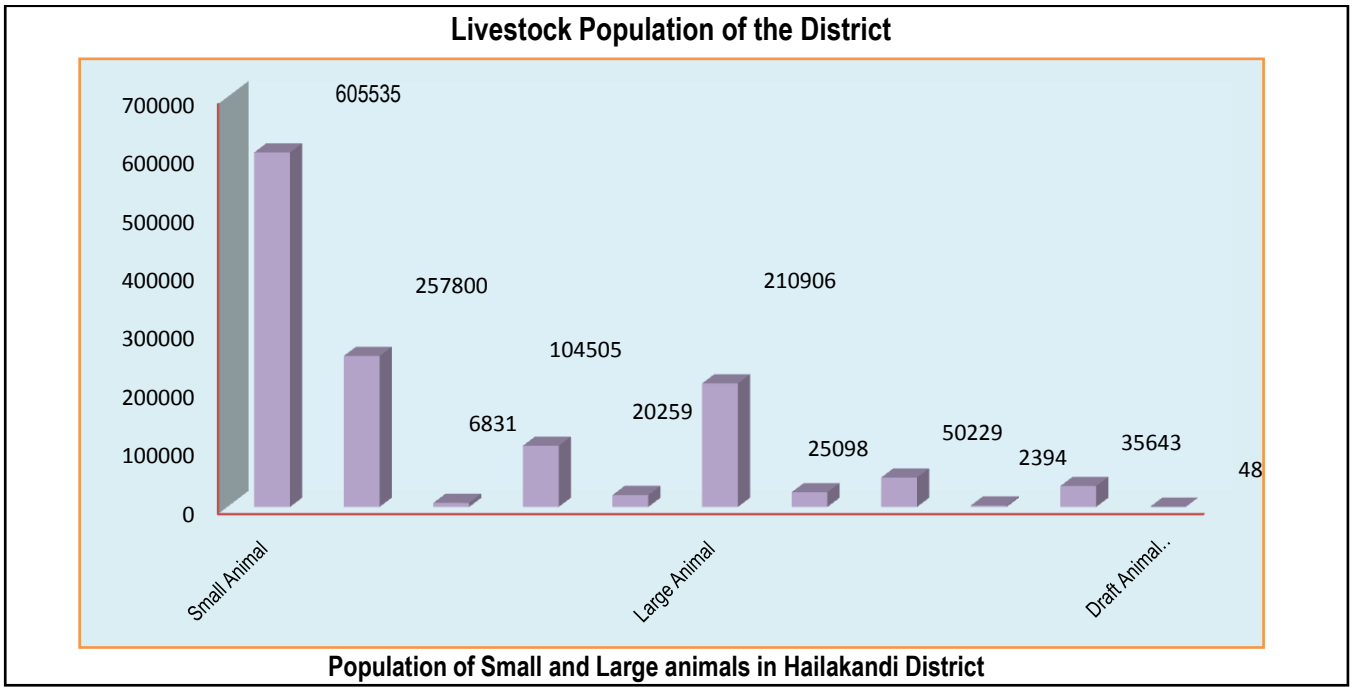
1.3 Biomass and Livestock

Water plays an important role in livestock productivity. Livestock productivity in pastoral areas depends greatly on the availability of water. There are several factors, which determine water balance, water turnover and functions of the animal. Assessment of livestock and water requirement is helpful in modelling water and livestock relationships.

The demand for meat, dairy products and eggs rises faster than the demand for crops; thus both scenarios call for livestock production to increase relatively more rapidly than crops. The world livestock system is broadly divided into pastoral grazing, mixed farming and industrial systems (Sere and Stienfeld 1996). Estimate of the current demand of 1.7 billion tons of cereals and 206 million tones of meat in developing countries could rise by 2020 to 2.5 to 2.8 billion tones of cereals and to 310 millions of tons of meat (IFPRI 2000). Water is used by the herbivore as a medium for physical and chemical energy transfer, namely for evaporative cooling and intermediary metabolism (Konandreas and Anderson; King 1983; Kirda and Riechardt 1986). Livestock and poultry water consumption depend on a number of physiological and environmental conditions such as:

- Type and size of animal or bird.
- Physiological state (lactating, pregnant or growing)
- Activity level.
- Type of diet-dry hay, silage or lush pasture.
- Temperature-hot summer days above 25° C can sometimes double the water consumption of animals.
- Water quality - palatability and salt content.

The total livestock of the district during the year 2015 is found to be 1319248 presented below in the figure 1.3.1:-



1.3.1 Small Animals

The details of the small animal of the district as per data provided by the Animal Husbandry Department of the district are diagrammatically depicted below in figure 1.3.2:

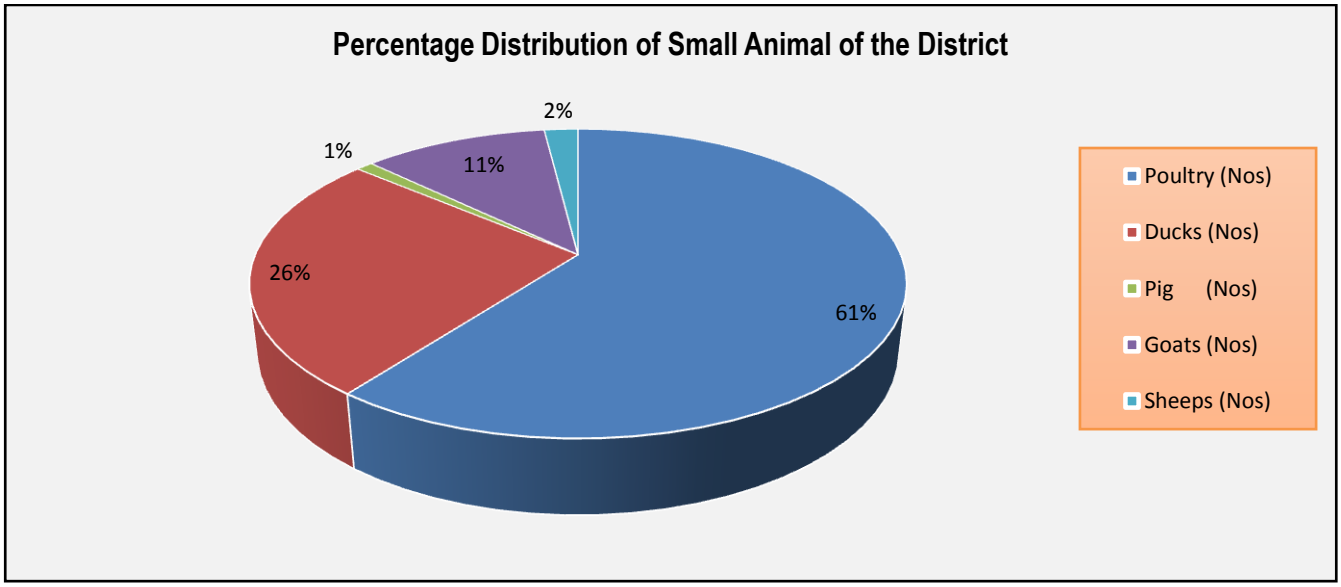
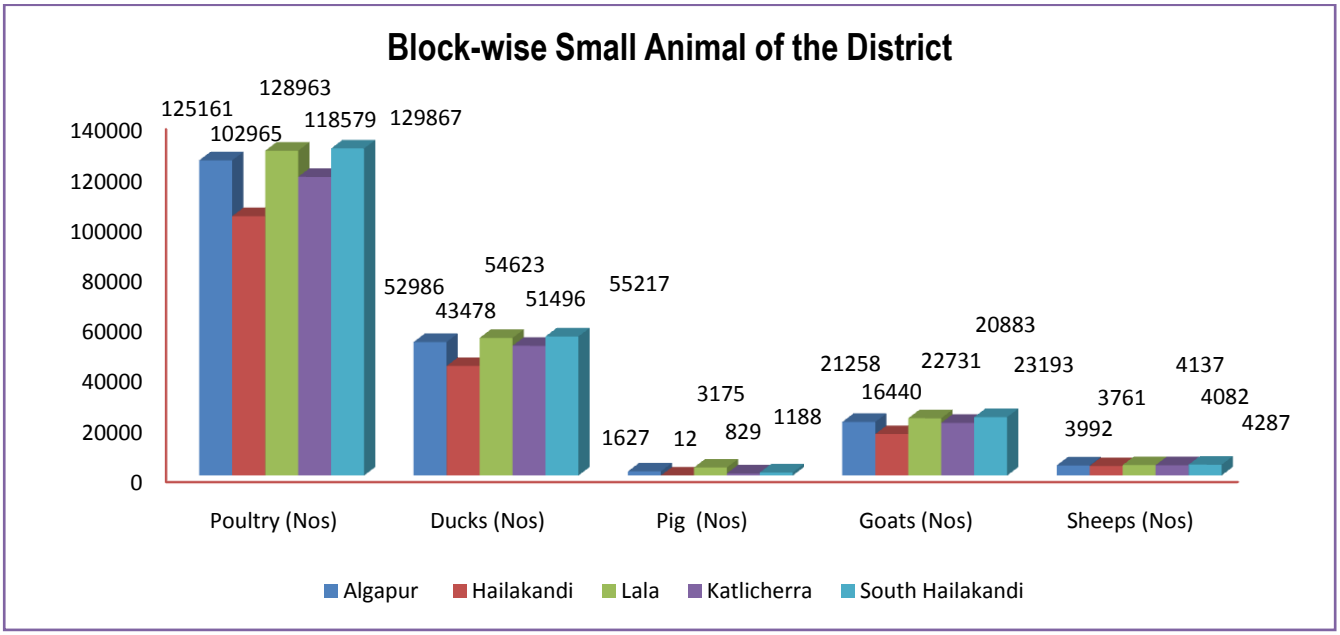


Figure 1.3.2: Percentage of small animals in the district

It is clearly shown from the above figure that more number of people are interested in poultry farming because their basic food pattern adds more number of non-vegetarians due to the climatic conditions.



Population of small animal in the district is 994930. Poultry population accounts for 61% of the number of small animals in the district followed by Ducks (26%), Goats (11%), Sheeps (2%) and Pigs (13.57%). Among different blocks -South Hailakandi, Lala and Algapur blockranks first with 21% each (*i.e. 213752, 213629 and 205024 respectively*) of the total population of small animals followed by Katlicherra (20%) and Hailakandi Block (17%) respectively.

1.3.2. Large Animals

A total of 3,24,318 large animals are there in the district as reported by the Animal Husbandry Department of the district. The major large animals available in the district are indegeneous and hybrid cows and buffalosand other milch or meat animals like Mithun and others. A detaied graphical representation of the available large animals of the district is given below:

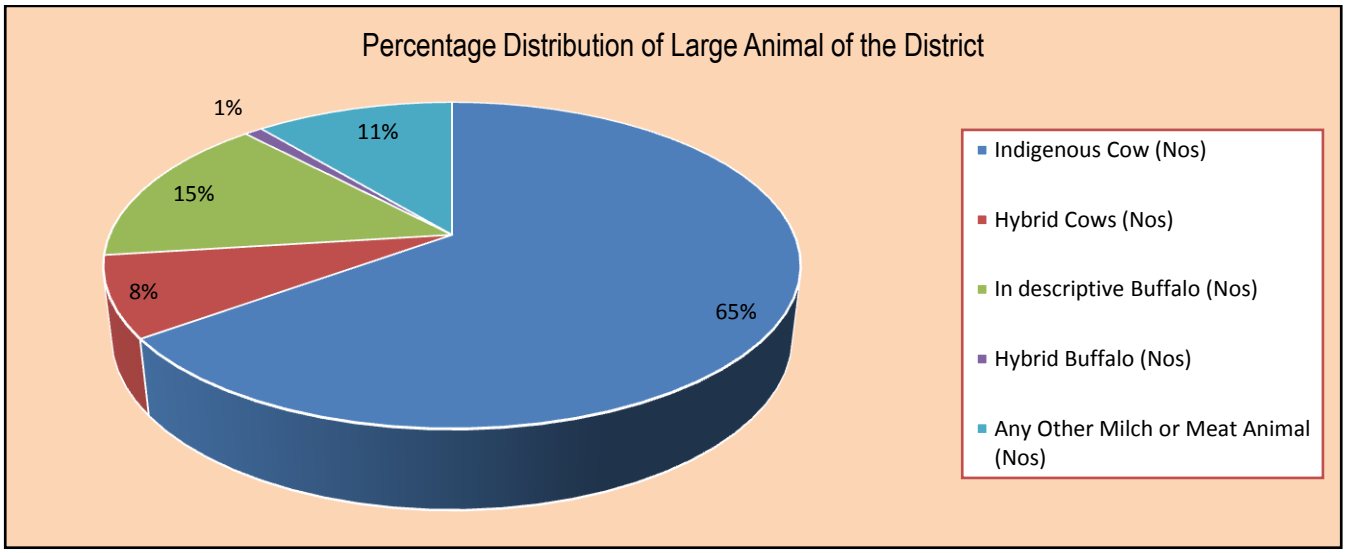


Figure 1.3. 4: Percentage of large animals in the district

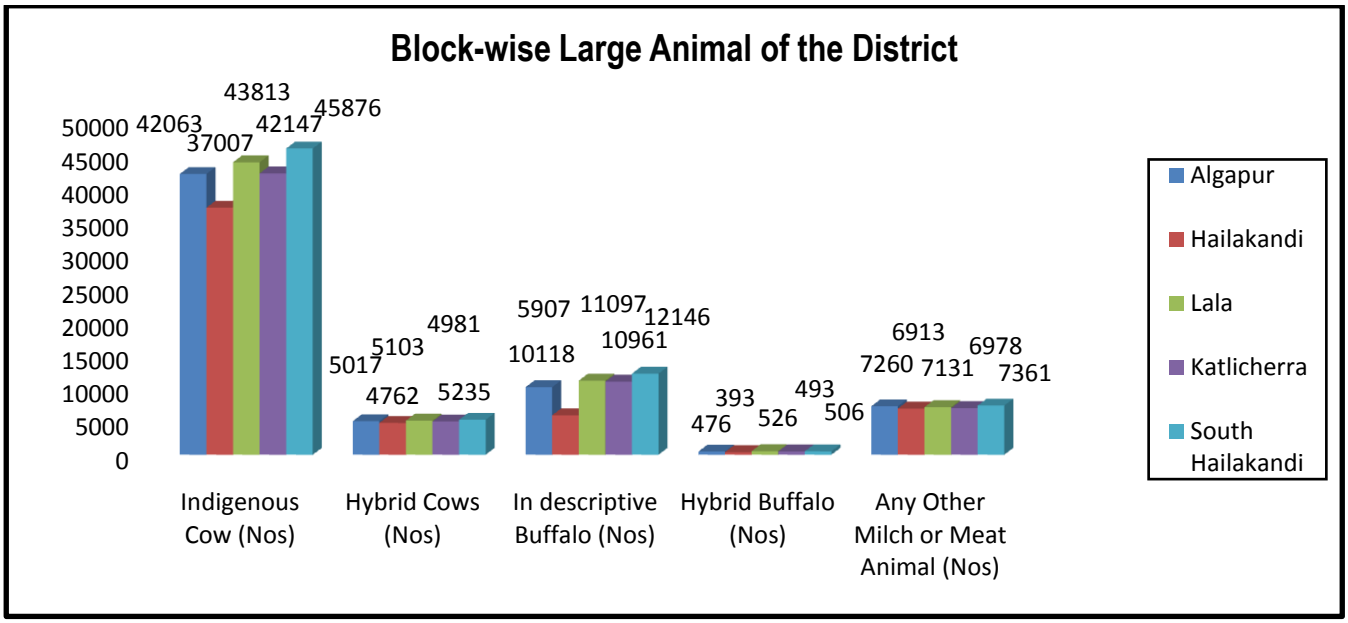


Figure 1.3. 5: Block wise Large Animal Population

Population of large animals in the district is 324318. Indigenous cow's population accounts for 65% of the total number of large animals in the district followed by indescriptive buffalo for 15%, other milch animals (11%), hybrid cows (8%) and hybrid buffalo (1%). Among different blocks,South Hailakandi has the highest large animal population and it shares 22% of total population followed by Lala Block with a share of 21% of total population, Algapur and Katlicherra Block shares only 20% of total large animal population and Hailakandi with the minimum large animal population sharing only 17% of total large animal population in the entire District.

Table: 1.3: Biomass & Livestock Statistic of Hailakandi District

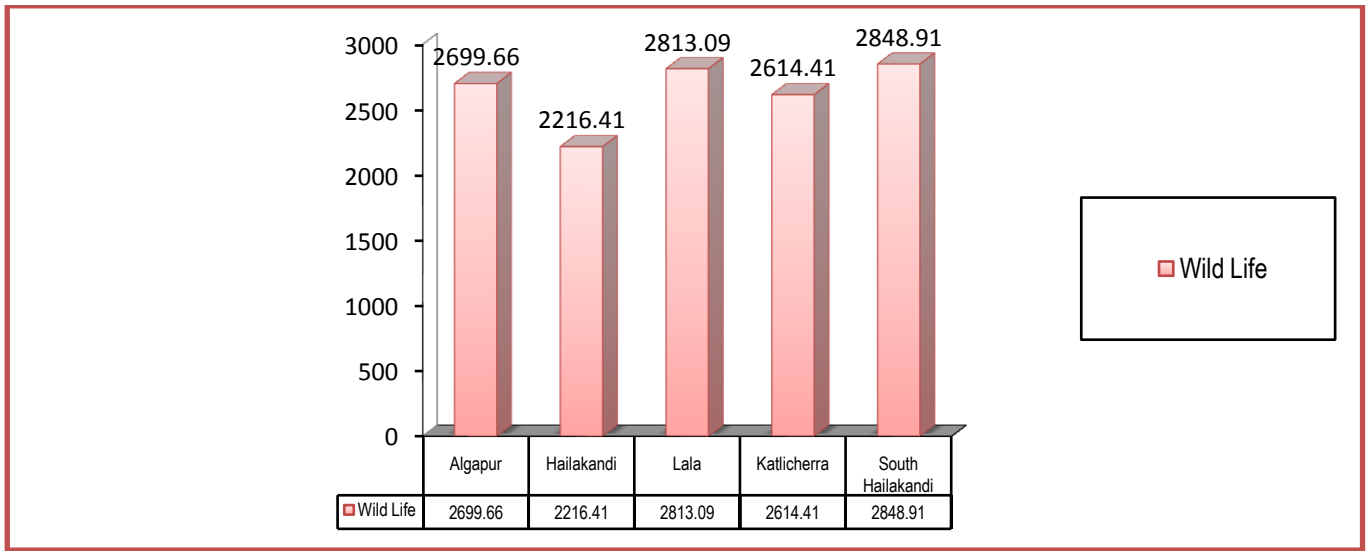
Block	Small Animal					Large Animal				Any Other Milch or Meat Animal (Nos)	Draft Animal (Buffalo/ yak/bulls/any other (Nos.)
	Poultry (Nos)	Ducks (Nos)	Pig (Nos)	Goats (Nos)	Sheeps (Nos)	Indigenous Cow (Nos)	Hybrid Cows (Nos)	In descriptive Buffalo (Nos)	Hybrid Buffalo (Nos)		
Algapur	125161	52986	1627	21258	3992	42063	5017	10118	476	7260	8
Hailakandi	102965	43478	12	16440	3761	37007	4762	5907	393	6913	3
Lala	128963	54623	3175	22731	4137	43813	5103	11097	526	7131	10
Katlicherra	118579	51496	829	20883	4082	42147	4981	10961	493	6978	12
South Hailakandi	129867	55217	1188	23193	4287	45876	5235	12146	506	7361	15
Total	**605535**	**257800**	**6831**	**104505**	**20259**	**210906**	**25098**	**50229**	**2394**	**35643**	**48**

Source: District Veterinary

Table: 1.3.1 Wild Life of Hailakandi District

Sr. No.	Block	Total number of Wild Life (1 % of Total Livestock)
1.	Algapur	2699.66
2.	Hailakandi	2216.41
3.	Lala	2813.09
4.	Katlicherra	2614.41
5.	South Hailakandi	2848.91
TOTAL		**13192.48**

Graph: 1.3.3: Wild Life Population of Hailakandi District



The total livestock population consisting of Cattle, Buffalo, Sheep, Goat, pig, Horses & Ponies, Mules, and Donkeys are divided into the three main categories on the basis of requirement of water.

Table: 1.3.2 Water consumption by different category of Livestock

Water Consumptions by Animals / Birds			
Sr. No.	**Livestock Category**	**Water requirement Range**	**Average Water Use L/ Day**
1	Poultry	0.16-0.24	0.2
2	Small Animals	13-20	16.5
3	Large Animals	39-59	49

1.4 Agro-Ecology, Climate, Hydrology and Topography:

Agro-ecology is the study of ecological processes that operate in agricultural production systems. The prefix agro- refers to agriculture. Bringing ecological principles to bear in agro ecosystems can suggest novel management approaches that would not otherwise be considered. Agro ecology is the application of ecological concepts and methodological design for long-term enhancement and management of soil fertility and agriculture productivity. It provides a strategy to increase diversified agro-ecosystem. So it is benefiting the effect of the incorporation of plant and animal biodiversity, nutrient recycling; biomass creation and growth through the use of natural resource systems based on legumes, trees, and incorporation of livestock. These all make the basis of a sustainable agriculture and aim to improve the food system and societal sustainability. The agro-ecology supports production of both a huge quantity and diversity of good quality of food, thread and medicinal crops, together with family utilization and the market for economic and nutritionally at risk populations. Sustainable agricultural practices have to tackle the conservation of biodiversity, enhanced ecological functions, social tolerance, self-reliance, fairness, improved quality of life and economic productivity of crops and live- stock. Sustainability of agriculture is viewed critically from the point of food and ecological security at the regional scale.

Table: 1.4: Agro Ecology, Climate, Hydrology& Topography

Block	Agro Ecological Zone Type	Type of Terrain	Block Area (Ha)	Normal Annual Rainfall (mm)	Average Monthly Rain Fall (mm)	Nos of Rainy Days (Nos)	Max. Rain fall intensity in mm			Average Weekly Temperature(°C)									Potential Evapo-Transpiration (PET)			
										Period									Period			
										Summer (Apr-May)			Winter (Oct-Mar.)			Rainy (Jun-Sep)						
							Up to 15 Min	Beyond 15 Min But Upto 30 Min	Beyond 30 Min But Upto 60 Min	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Summer (Apr-May)	Winter (Oct-Mar.)	Rainy (Jun-Sep)	Cumulative Total
Algapur	Barak Valley Zone	Hilly & Plain		2388.54	199.045	117	20.41			32.550	19.700	26.125	32.260	12.820	22.540	34.150	22.370	28.260	597.14	238.85	358.21	1194.2
Hailakandi		Plain																				
Lala		Hilly & Plain																				
Katlicherra		Hilly & Plain	8439																			
South Hailakandi		Hilly & Plain	51361																			

1.4.1: Rainfall

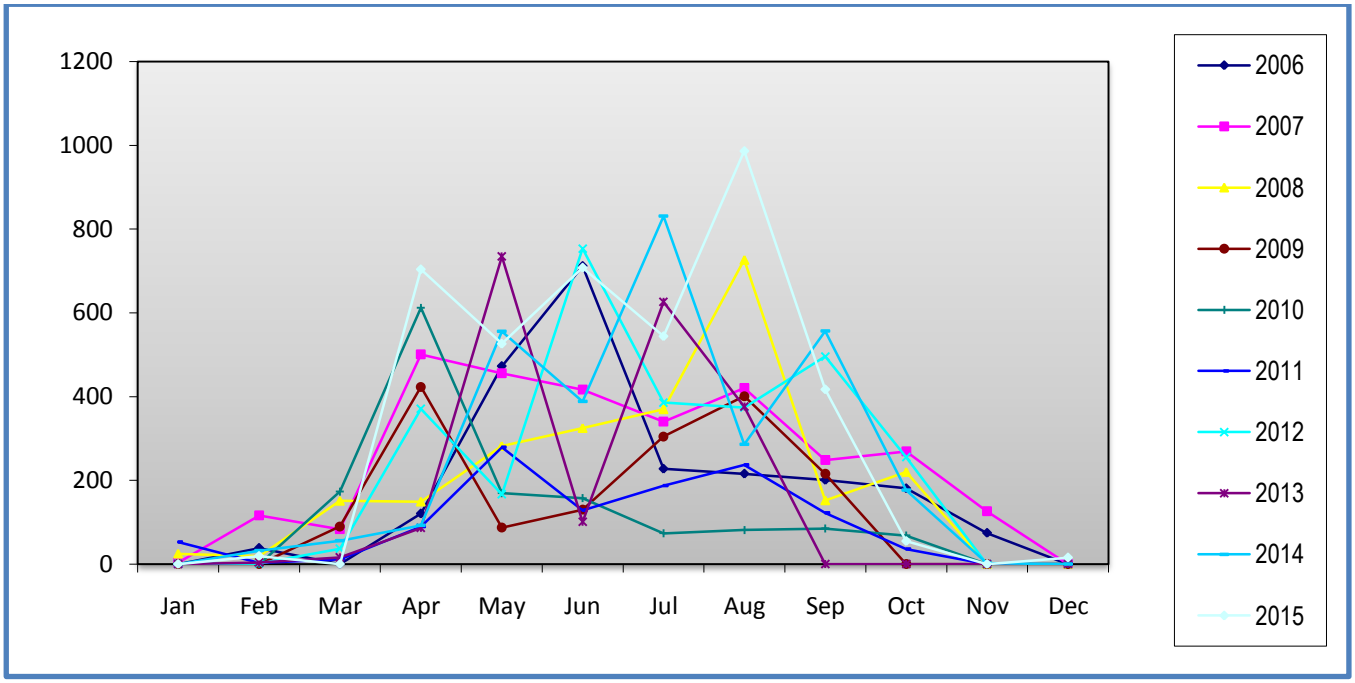
The average annual rainfall of the district is 2388.54 mm with 117 average rainy days on the basis of record of last 10 years. During this period, the rainfall varied from 1145.79 to 3974.1 mm annually. High rainfall generally concentrated during the months of May to August. The rainfall is quite erratic and uneven throughout the district. The pre monsoon rain (February-April) helps for growing Autumn Paddy and Kharif vegetable, normal monsoon (May – September) helps for growing winter paddy and in case of excess rainfall it causes damage to crops and livestock. The post monsoon (October – November) shower helps in panicle initiation stage of paddy crop. If sufficient shower is not received then it causes little dry spell condition in October on the other hand excess shower sometimes delays the cultivation of Rabi crops. Winter months (December – January) remains generally dry with scanty rainfall.

Table: 1.4.1: Month wise Rainfall Data of Hailakandi District

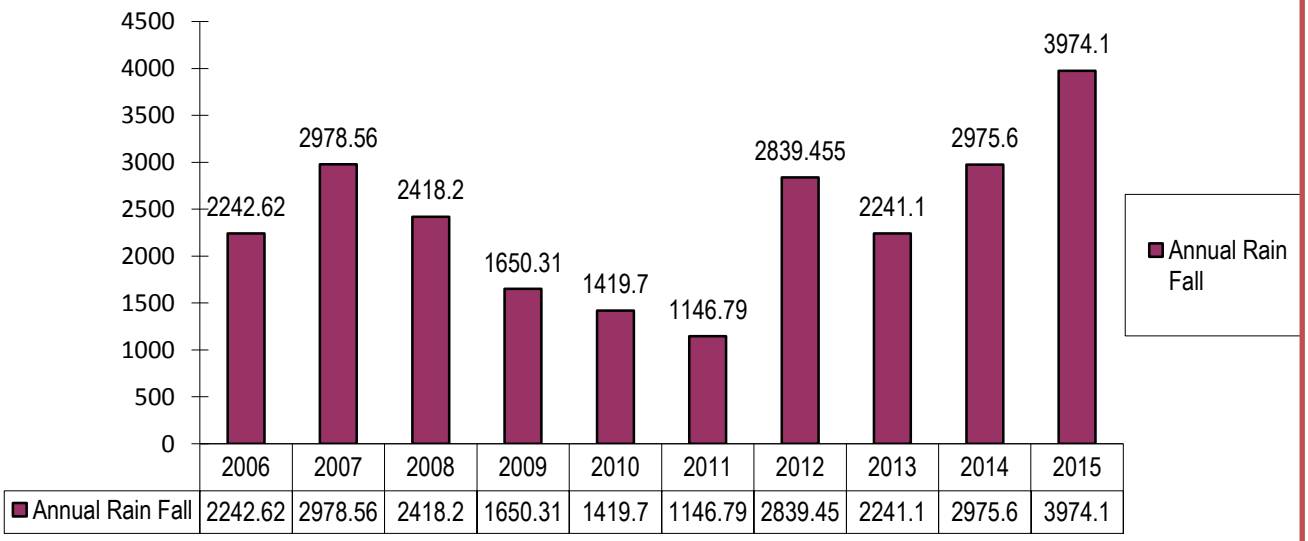
Month	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Jan		3.5(1)	24.8(3)			52.52(1)	0.52(1)			
Feb	38.5(2)	115.9(7)	19(4)			3.4(1)	1.375(1)	4.2(1)	32.4(4)	19.1(2)
Mar		83.2(5)	151(11)	89.7(6)	173.1(5)	11.3(6)	36.81(5)	16(2)	55.4(4)	
Apr	120.6(13)	500.4(12)	149(2)	422.8(10)	611.7(16)	89.14(12)	370.6(22)	86.7(9)	92.79(12)	703.7(17)
May	472.7(17)	455.6(18)	281.8(16)	87.1(10)	169.3(20)	279.07(22)	166.55(17)	734.5(23)	555.7(19)	526(22)
Jun	711.7(22)	416.26(16)	324.7(21)	130(12)	157.2(23)	128.16(26)	753.3(21)	100.8(9)	388.3(24)	707.7(19)
Jul	227.5(23)	340.3(23)	369.6(21)	304.6(22)	73.6(14)	187.56(27)	385.6(19)	625.9(19)	830.6(20)	544(21)
Aug	215.72(16)	420.2(19)	726.3(21)	400.56(19)	81.4(12)	237.18(23)	373.9(18)	673(23)	286.1(19)	986.2(28)
Sep	200.7(15)	248.2(11)	152.1(8)	215.55(11)	85.1(14)	122.71(14)	495.5(21)		556.1(18)	417(15)
Oct	180.8(2)	268.6(11)	219.9(7)		68.3(3)	35.75(6)	255.3(9)		176.3(4)	54.8(5)
Nov	74.4(6)	126.4(3)							2(1)	
Dec										15.6(1)
TOTAL	**2242.62 (116)**	**2978.56 (126)**	**2418.2 (114)**	**1650.31 (90)**	**1419.7 (107)**	**1145.79 (138)**	**2839.455 (134)**	**2241.1 (86)**	**2975.6 (125)**	**3974.1 (130)**

Source – Rain gauge station C.W.C., Matijuri, Hailakandi. (NB: Figure in parenthesis denotes rainy days)

Graph: 1.4.1: Month wise Rain fall in Hailakandi District



Graph: 1.4.2: Annual Rain fall for last ten years in Hailakandi District



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Annual Rain Fall	2242.62	2978.56	2418.2	1650.31	1419.7	1146.79	2839.45	2241.1	2975.6	3974.1

1.4.2: Temperature

Normally, annual mean maximum temperature ranges in between 28.4° – 36.7° and annual minimum temperature ranges between10.0° to 24.4° Celsius. Thus, prevailing range of temperature indicates that all tropical and semi tropical crops can be grown successfully without or with slightly agronomic manipulations.

Table: 1.4.2: Average weekly Temperature in °C

Year	Period								
	Summer (Apr-May)			Winter (Oct-Mar.)			Rainy (Jun-Sep)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
2004	33.8	21.0	27.4	31.6	11.6	21.6	33.8	20.0	26.9
2005	33.3	21.1	27.15	30.6	12.8	21.7	33.8	23.3	28.55
2006	35.0	20.0	27.5	30.0	14.4	22.2	32.8	22.8	27.8
2007	32.3	21.5	26.9	32.2	15.0	23.6	32.3	23.8	28.3
2008	33.3	21.1	27.2	32.2	11.1	21.65	33.8	22.2	28.0
2009	28.4	22.2	25.3	31.1	12.2	21.65	32.2	22.2	27.2
2010	33.3	17.8	25.55	30.5	11.1	20.8	36.7	21.7	29.2
2011	30.0	16.7	23.35	35.6	10.0	22.8	36.1	24.4	30.25
2012	32.8	14.5	23.65	34.4	15.6	25.0	34.4	22.2	28.3
2013	33.3	21.1	27.2	34.4	14.4	24.4	35.6	21.1	28.35
Average of 2004 to 2013	**32.55**	**19.7**	**26.125**	**32.26**	**12.82**	**22.54**	**34.15**	**22.37**	**28.26**

Source: VigyanMandir, Hailakandi

1.4.3: Agro Climatic Zone and Agro Ecological Situations (AES):

The State has been delineated into six Agro Climatic Zones on the basis of Physiography, Climate, Soils, Crops and Cropping Pattern. Southern part of the state delineated as Barak Valley Zone comprising of three districts namely Cachar, Hailakandi and Karimganj. Hailakandi district with 132700 Hectares occupies 19.26% area of the zone. Similarly the district has been further divided in five Agro Ecological Situation (AESs) Viz.

AES-I- Beel and Hoar situation (Covering Algapur, Hailakandi & Lala Block and 3% of the cultivable area)

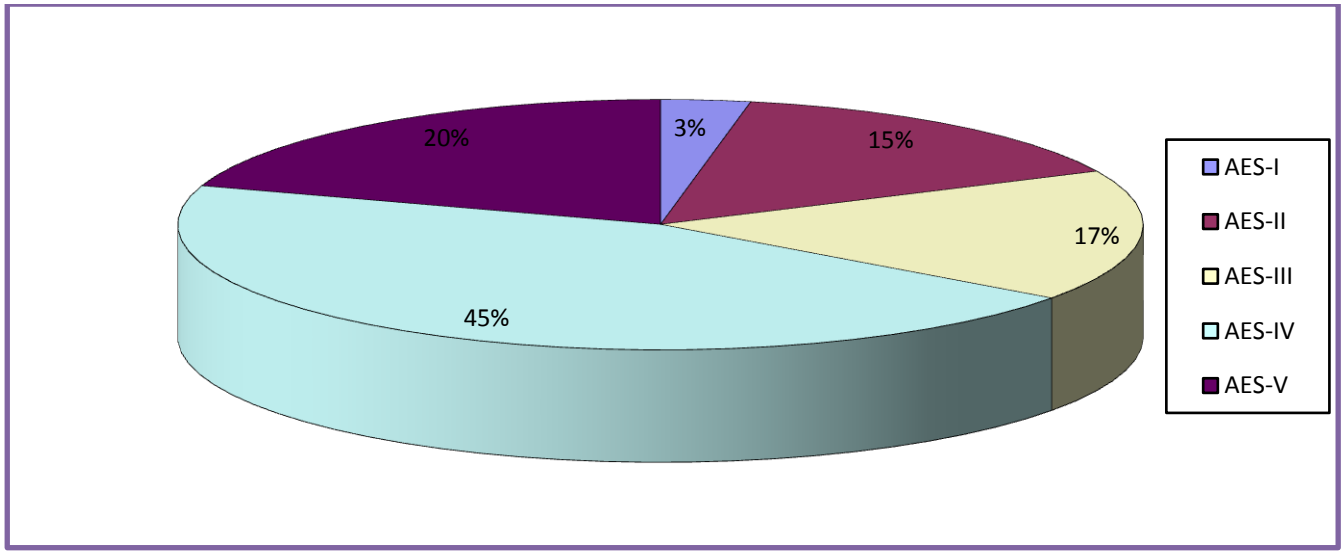
AES-II- Alluvial flood prone situation (Covering Algapur, Hailakandi, Lala, Katlicherra & South Hailakandi Block and 15% of the cultivable area)

AES-III- Alluvial flood free situation (Covering Algapur, Hailakandi, Lala, Katlicherra & South Hailakandi Block and 17% of the cultivable area)

AES-IV- Plantation crop growing situation (Covering Algapur, Hailakandi, Lala, Katlicherra & South Hailakandi Block and 45% of the cultivable area)

AES-V- Hill and forest situation (Covering Algapur Lala, Katlicherra & South Hailakandi Block and 20% of the cultivable area) on the basis of Physiography, soil, climate, topography, cropping pattern etc.

Graph: 1.4.3: Diagram Showing Percentage coverage of AES



1.5: Soil Profile:

Soil is a major part of the natural environment, alongside air and water, and is vital to the existence of life on the planet. Soil is the result of the process of the gradual breakdown of rock - the solid geology that makes up the earth. As rock becomes broken down through a variety of processes, such as weathering and erosion, the particles become ground smaller and smaller. As a whole, soil is made up from four constituents: mineral material, organic material, air and water. There are considered to be three main mineral parts to soil; 'sand', 'silt' and 'clay'. These parts give the soil its 'mineral texture'. In addition, as leaves and other organic material fall to the ground and decompose - there also forms an 'organic' layer. Soil scientists (or pedologists) use a series of sieves to separate out the constituent parts in order to characterize soil by texture class.

Many natural bodies, such as plants and animals, are discrete entities which can be classified and guidelines for their identification followed. Soils are much more difficult to identify and classify than these discrete bodies for two main reasons: (i) soil is more or less a continuum covering the land surface of the earth, not a set of discrete entities; and (ii) most of the soil is below ground and therefore not readily visible. Soils grade into one another across the landscape usually without sharp boundaries between one type of soil and another. Soil surveyors who make maps of soils have to use their skills in reading changes in the landscape coupled with auger borings in the soil to identify the nature of the soil.

There are several ways of classifying a soil, from the simple to the complex. A soil type may be as simple as 'a sandy soil' or 'a clayey soil' and this is often the perception of many land users, such as farmers or civil engineers, who see it as material they have to deal with to achieve an end result, such as the growing of a crop of wheat, or the building a road. Simple classifications tend to be of local and restricted relevance only. At the other end of the spectrum is the soil scientist who needs to understand how soils have formed, which types occur where, and for what the different types of soil can be used. The soil scientist seeks a much broader understanding, with the aim of underpinning the use and preservation of this important natural resource, and this has manifested itself in a number of detailed soil classification systems worldwide.

Soils have many important functions. Perhaps the best appreciated is the function to support the growth of agricultural and horticultural crops. Soil is the mainstay of agriculture and horticulture, forming as it does the medium in which growth and ultimately the yield of food producing crops occurs. Farmers and gardeners have worked with their soils over many centuries to produce increasing amounts of food to keep pace with the needs of a burgeoning world population. The soil's natural cycles go a long way in ensuring that the soil can provide an adequate physical, chemical and biological medium for crop growth. The farmer and horticulturalist have also become skilled in managing soils so that these natural cycles can be added to as necessary to facilitate adequate soil support and increasing yield to enhance production.

1.5:1: Structural Classification of Soil:

The soil of Barak valley zone owes their origin to Shillong plateau and other surrounding hills to a large extent and the main river has also a minor contribution to it. The soils are formed from the sedimentary rocks like sandstone, shale and sandy shale. Depending upon situations, the soil varies from sandy type to clay type with pH from 4.5 to 5.9. The major classes of soil prevalent in the district are old riverine alluvial, old mountain alluvial, non-laterite red soil and pit soil. Old riverine alluvial soil of the district is mainly confined to the banks of the river Barak, Katakhal, Dhalaeswari; the texture varies from sandy to silky loam. The old mountain alluvial soil occurs in broad plains bordering riverine alluvial soils. Soils of this group are generally silky to clay. Non-laterite soil group comprises low-lying areas. The pit soils occur in scattered patches of low-lying areas locally called "Beel and

Haors". These soils are generally rich in organic matters, high in pH, usually dark grey in colour and heavy in texture. The fertility status of soil denoted as high (H), medium (M) and low (L) on the basis of soil test report (2000) of Soil Testing Laboratory, Silchar. The Block wise soil reaction and fertility status is presented in Table: 1.5.1

Table: 1.5.1: Soil Reaction and Fertility Status of Different Blocks of Hailakandi District

Block	ADO Circle	Soil pH	Fertility Status		
			N	P	K
Algapur	Panchgram	4.7-5.9	M	M	L
	Boalipar	4.5-5.8	M	M	L
Hailakandi	Hailakandi	4.8-5.7	L	L	L
Lala	Lala HQ	4.6-4.9	M	M	L
	Lala Bazar	4.7-5.4	L	L	L
Katlicherra	Katlicherra	4.5-5.3	M	M	L
South Hailakandi	Monipur	4.5-5.6	M	M	L

Source: Soil Testing Laboratory, Silchar

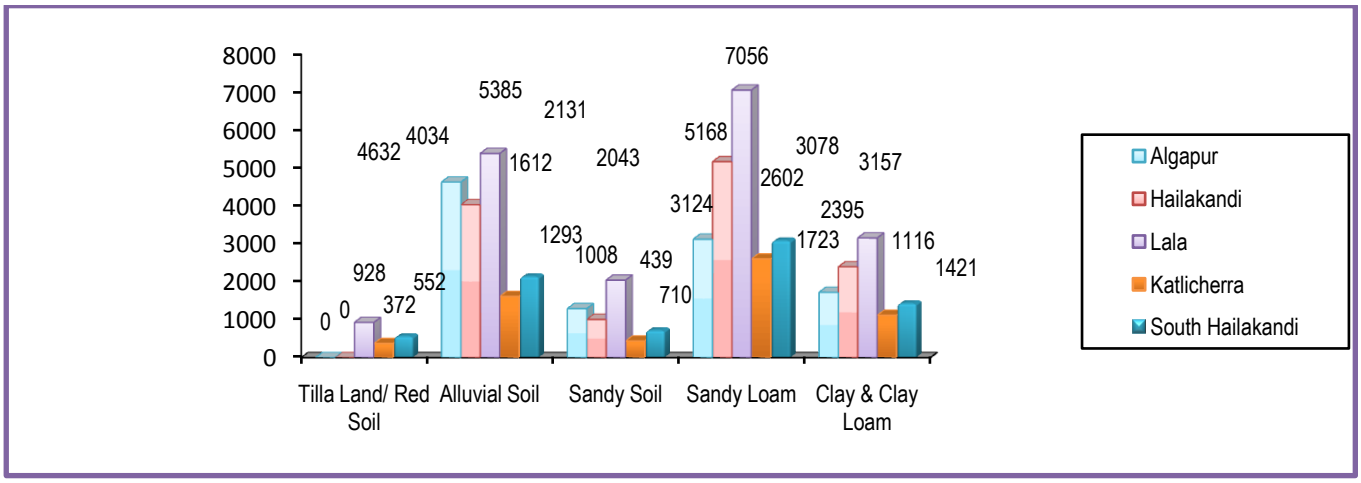
The soils of the district are classified in to (five) types viz. Tilla Land/Red Soil, Alluvial Soil, Sandy Soil, Sandy Loam, Clay & Clay Loam soils. 37.52% cultivable area of the district is occupied by Sandy Loam Soil; 31.76% by Alluvial Soil, 17.51% by Clay Loam Soil; 9.90% by Sandy Soil and 3.30% by Tilla Land/Red Soils. Tilla land/ Red Soil existed in only 3 (three) blocks viz. Lala, Katlicherra and South Hailakandi where as all other soils are existed in all the blocks of the district. Block wise classification of soil is presented below in Table: 1.5.2 and in Graph: 1.5.1. The data reveals that all type of tropical and semi tropical crops can be grown successfully with the some corrective measures.

Table: 1.5.2: Block wise Classification of Soil of Hailakandi District

Name of Block	Tilla Land/ Red Soil		Alluvial soil		Sandy Soil		Sandy Loam Soil		Clay & Clay Loam Soil		Total Cultivable area
	Area	%	Area	%	Area	%	Area	%	Area	%	
Algapur	-	-	4632	43	1293	12	3124	29	1723	16	10772
Hailakandi	-	-	4034	32	1008	8	5168	41	2395	19	12605
Lala	928	5	5385	29	2043	11	7056	38	3157	17	18569
Katlicherra	372	6	1612	26	439	8	2602	42	1116	18	6195
South Hailakandi	552	7	2131	27	710	9	3078	39	1421	18	7892
TOTAL	**1852**		**17794**		**5547**		**21028**		**9812**		**56033**

Source: District Agriculture Office, Hailakandi

Graph: 1.5.1: Block wise Classification of Soil of Hailakandi District



(i) Tilla Land / Red Soil

Red soils are formed as a result of the draining down of old crystalline rock, less clayey and sandier in nature. This is having a rich content of iron plus small humus content. The content of essential nutrient like nitrogen, phosphorus and lime is very less in red soils. Slightly acidic, it is incapable of retain moisture. It is due to the presence of iron dioxide deposits, that red soils get the unique red tint and are comparatively infertile because of lime deficiency and soluble salt content. Red soils in India are alternatively known as Yellow Soil.

(ii) Alluvial Soil

Alluvial relating to or derived from alluvium. Alluvial soils are formed mainly due to silt deposited by Indo-Gangetic-Brahmaputra Rivers. Alluvial soils is porous because of its loamy (equal portion sand and clay) nature. Porosity and texture provide good drainage and other condition favourable for agriculture. The proportion of nitrogen is generally low. The proportion of potash, phosphoric acid and alkaline are adequate. The proportion of iron dioxide and lime vary within a wide range.

Alluvial soils are mostly flat and regular soils and are best suited for agriculture.

(iii) Sandy Soil

Sandy soil has the largest particles among the different soil types. It is dry and gritty to the touch and because the particles have huge spaces between them, it cannot hold on to water. Water and nutrients quickly drain away from the plant root zone. Sandy soil is opposite of clay soil.

(iv) Sandy Loam Soil

Sandy loam soil is a type of soil used in plant beds and pots that require ample drainage for the plants to thrive. Sandy loam soil is a mixture that is generally well balanced, but has sand as a dominant component. Perfect loamy soil is ideal for most growing, and contains an even mixture of sand, silt and clay in roughly even proportions.

Type of sandy loam are categorized by the size of sand and include coarse sandy loam, sandy loam, fine sandy loam and very fine sandy loam. Sandy loam soils are made of approximately 60% sand, 10% clay and 30% silt particles. Plants that are grown in a sandy loam soil need frequent irrigation and fertilization to maintain healthy growth. The best way to improve a sandy loam soil for gardening is to mix organic matter into the soil.

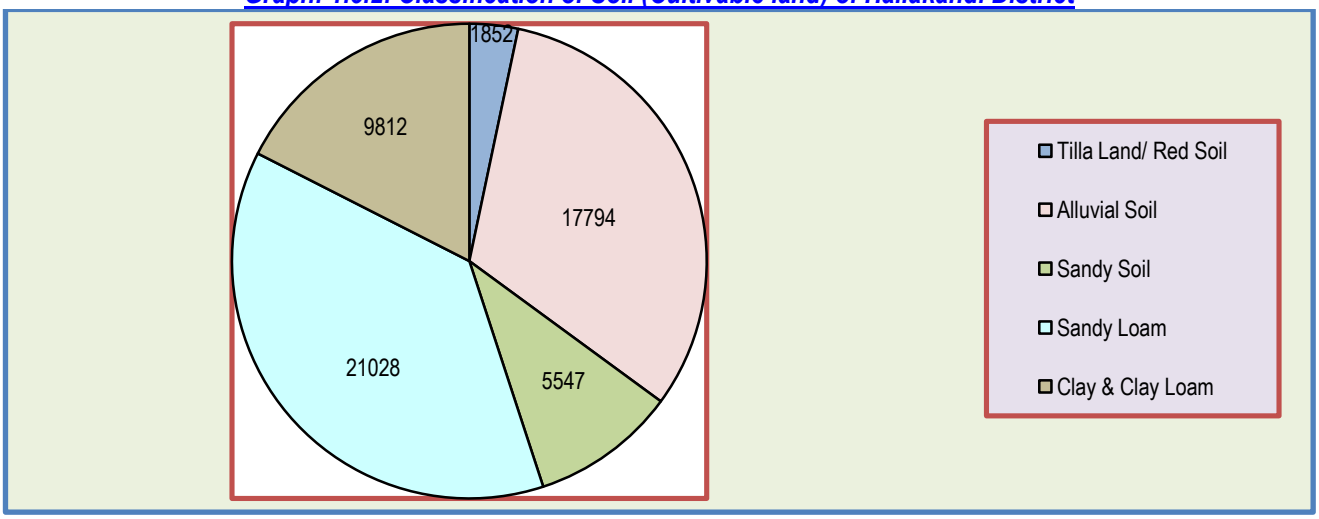
(v) Clay & Clay Loam Soil

Clay soil has the smallest particles so it has good water storage qualities. It is sticky to the touch when wet, but smooth when dry.

Due to the tiny size of its particles and its tendency to settle together, little air passes through its spaces. Because it is also slower to drain it has a tighter hold on plant nutrients. Clay soil is thus rich in plant food for better growth.

Clay loam is a soil mixture that contains more clay than type of rock and minerals. The particles of clay are very small, which is one of its important characteristic. Usually clay loam contains a good deal of plant nutrients and supports most types of plants and crops. Clay loams can be improved to create better drainage without too much difficulty.

Graph: 1.5.2: Classification of Soil (Cultivable land) of Hailakandi District



1.5.2: Land Slope:

Slope of land is also one of the important physiographic aspects influencing the land use of an area. The effect of slope on agriculture may be both direct and indirect. The most obvious direct influence of slope is in the form of the restrained on cultivation and accessibility. The indirect effect of slope manifests itself in pedological and climatic modification including the position of water table, development of soils, air drainage, and relative freedom from frost. This classification gives information regarding slope percent classes in the study area.

Table 1.5.3 Slope Category

Slope Category	Slope Class
Nearly level	0-1 %
Very gently sloping	1-3 %
Gently sloping	3-8 %
Strongly sloping	8-15 %
Mod. steep to steep	15-35 %
Steep sloping	35-45 %
Very Steep sloping	>45 %

Table: 1.5.4 Land Slope Pattern of Hailakandi District

Slope Class	Algapur	Hailakandi	Lala	Katlicherra	South Hailakandi
0-3%- Nearly Level					
3-8%- Very Gently Sloping					
8-25%- Strongly Sloping					
>25%- Steep Sloping					

1.6: ` Soil Erosion and Run-off Status:

Soil erosion is a naturally occurring process that affects all landforms. In agriculture, soil erosion refers to the wearing away of a field's topsoil by the natural physical forces of weather and wind or through forces associated with farming activities such as tillage.Erosion, whether it is by water, wind or tillage, involves three distinct actions – soil detachment, movement and deposition. Topsoil, which is high in organic matter, fertility and soil life, is relocated elsewhere "on-site" where it builds up over time or is carried "off-site" where it fills in drainage channels.

Soil erosion reduces cropland productivity and contributes to the pollution of adjacent watercourses, wetlands, and lakes.

Soil erosion can be a slow process that continues relatively unnoticed or can occur at an alarming rate, causing serious loss of topsoil. Soil compaction, low organic matter, loss of soil structure, poor internal drainage, salinization, and soil acidity problems are other serious soil degradation conditions that can accelerate the soil erosion process. The greater the intensity and duration of a rainstorm, the higher the erosion potential. The impact of raindrops on the soil surface can break down soil aggregates and disperse the aggregate material. Lighter aggregate materials such as very fine sand, silt, clay and organic matter are easily removed by the raindrop splash and runoff water; greater raindrop energy or runoff amounts are required to move larger sand and gravel particles.Soil movement by rainfall (raindrop splash) is usually greatest and most noticeable during short-duration, high-intensity thunderstorms. Although the erosion caused by long-lasting and less-intense storms is not usually as spectacular or noticeable as that produced during thunderstorms, the amount of soil loss can be significant, especially when compounded over time.

Data of soil erosion is not available for this district as remote sensing based soil erosion potential map and data attached and there is no sedimentary monitoring station.

1.7 Land use Pattern

1.7.1. Concept of Land use

Land use is a function of four variables - land, water, air and man, each plays in its own role in composing its life history. Land constitutes its body; water runs through its veins like blood, air gives it oxygen and man acts as the dynamic actor to reflect its types, pattern and distribution. Land varies in altitudes, forms and expressions. Man has played his part on land to portray the different phases of his ties with it. The Homo-sapiens moved from one topography to another where climate, flora and fauna also changed. He used land, flora and fauna to fit his limited wants. Men multiplied, their wants increased and become complex, the uses of land also increased, methods and technology also changed. Man was making his own map on the face of the earth to portray his link, adaptation, creation and destruction. Man has cleared the forest for shifting (Jhum) cultivation. He then used the land for large-scale farming, small-scale farming, intensive farming, mixed farming, dry farming, etc. He has used the land for one crop or another is a minor land use problem, but to use each plot of land for the right cultivation under optimum conditions to obtain optimum yield is a significant problem. Man has learnt the use of grasslands, semi-arid and arid lands to his own advantage by applying improved methodology and utilization of his accomplishments.

Over a period, geographic pattern of agricultural land use are the outcome of concurrent interaction between the variable combinations of natural condition and human circumstances. Primarily, these are influenced by natural condition and thereafter affected by human circumstances because of their colonizing capability. The human circumstances are mainly responsible for dynamism in agriculture land use or changing cropland occupancy. Therefore, efficient cropland occupancy, say cropping pattern, implies the most successful use of agriculture land, consequent upon development of irrigation facilities and application of modern methods of farm technology. The key to the most important aspect of land use lies in the relation of population to land. The crux of the review, therefore, refers to the study of the problems in use of land by man. According to R.H. Best, the term land use deals with the spatial aspects of human activities on the Land and with the way in which the land surface is adapted or could be adapted, to serve human needs. This leads one back to the village farm and farmer, to the fields, gardens, pastures, fallow land, forest and to the isolated farmstead (Freeman, 1960). The land use shifts

from agricultural uses to residential, industrial, transportation, neighbourhood retail and service activities due to urbanization. A true nature of these dynamic qualities in land use emerges from a historical survey designed to reveal the successive development of inherent characteristics of land because 'some changes are short-lived whereas others represent a more constant demand' (Jackson, 1963).

1.7.2: Land Use Classification

The conservation and development of land resource is in area needs special focus. It needs well thought and rational planning, which in turn depends upon minute observation of land use pattern. The aim of this study is clear visualization of local land environment. The intense and focused study of the details of land use puts us in a position to conserve the important elements of the nature, which otherwise lead in a direction of destruction and consequently threaten the social strata. The present study focuses mainly on dimension, which is very important from the sustainability point of view that is distribution of different groups of land use, i.e. their ratios in the region. Therefore, it becomes very complex and diversified to study all the groups available at micro-level, homogenous groups are generalized to reduce the number of groups, and these simplified groups of land use are called generalized land use classification.

World Land Use Classification mainly recognizes nine categories. These are Settlement and Associated Non Agricultural Land, Horticulture, Tree and Permanent Crops, Crop Land, Improved Permanent Pasture, Improved Grazing Land, Wood Land, Swamps and Marshes, Unproductive Land.

In India, a standard classification system is yet to develop. National Atlas and The land use classification presented by All India Soil and Land Use Survey 1970 are as follows:

1. Forest Land (F) F1 without Canopy F2 Sparse Forest F3 General Forest F4 Fully Stocked Top Canopy
2. Cultivated land (CC) C1 Single Cropped C2 Double Cropped C3 Triple Cropped
3. Terraced Land (T) T1 Poorly Bounded Land T2 Poor Terracing Measures T3 Bench Terraces
4. Waste Land (W) W1 Fit for Cultivation W2 Unfit for Cultivation
5. Pasture Land (P) P Pasture and Grazing Land H Hay Land When the Grass Periodically Cut P1 With Young Shrubs P2 With Well Grows Shrubs T Thorny Lands and Heavy Canopy Shrubs.

Land use classification by Statistical Department of Government of India.

I. Geographical Area - Area calculated by Survey Department.
II. Reported Area (Statistical area related to land use)

1. Forest.
2. Land not Available for Cultivation.
   a) Land Put to Non- Agricultural Use.
   b) Barren and Uncultivable Land.
3. Other Uncultivable and excluding Fallow Land.
   a) Permanent Pastures and Other Grazing Land.
   b) Miscellaneous Tree Crops and Gardens.
   c) Cultivable Waste Land.
4. Fallow Land

a) Fallow Other than Current Fallow
b) Current Fallow

5. Cultivated Land
a) Net Sown Area,
b) Area Sown More Than Once.

I. Net Irrigated Area.
II. Total Irrigated Area.

The analysis of land use in the present study is based on district statistical magazine, data available at block level and revenue office. Following categories of land use have been recognized in the study area. In the analysis of land use pattern study has been adopted at block level: Forest Cover, Barren and cultivable waste land, Current Fallow land, Other Fallow land, Barren & uncultivable Land, Land put to non-agricultural Use, Pastures and Grazing Land, Area under bush, forest & garden, Net area sown.

1.7.3: Built-Up Land

It is an area of human habitation developed due to non-agricultural use and that has a cover of buildings, transport and communication, utilities in association with water, vegetationand vacant lands. For delineating built – up land built up polygons interpreted under settlement.

1.7.4. Built-up Land (Urban)

All places with a municipality, corporation or cantonment or which are notified as town areas and all other places which satisfy the criteria of a minimum population of 5000, at least 75 per cent of whose male working population is non-agricultural and having a density of population of at least 400 per sq. km. are placed under this category (Census of India). It comprises areas of intensive use with much of the land covered by intensive use and covered by structures. It includes residential, recreational, public & semi-public, transportation, communication and isolated areas such as parks, playgrounds, open spaces and vegetated areas.

1.7.5. Built-Up Area (Rural)

These are the lands used for human settlement and are of size comparatively less than the urban settlements of which more than 80% of the people are involved in the primary activity of agriculture. All the agricultural villages covering 5 hectares area and more are included in this category. These are the built-up areas, smaller in size, mainly associated with agriculture and allied sectors and non-commercial activities with population size less than 5000, generally lack supporting facilities that are unique to urban areas like hospitals, industries (large and medium scale), institutional etc. They appear in dark bluish green in the core built-up area and bluish in the periphery; the size varies from small to big; irregular and discontinuous in appearance; can be seen in clusters con-contiguous or scattered.

1.7.6. Agricultural Land

These are the lands primarily used for farming and for production of food, fiber, and other commercial and horticultural crops. It includes land under crops (irrigated and unirrigated, fallow, plantations etc.).

1.7.7. Cropland

These are the areas with standing crop as on the date of satellite overpass. Cropped areas appear in bright red to red in color with varying shape and size in a contiguous to non-contiguous pattern. They are widely distributed in different terrains; prominently appear in the irrigated areas irrespective of the source of irrigation.

1.7.8. Forest

These are the areas bearing an association predominantly of trees and other vegetation types (within the notified forest boundaries) capable of producing timber and other forest produce. They comprise of thick and dense canopy of tall trees, which can be evergreen, semi evergreen or deciduous (moist/dry/thorn). Evergreen forest includes both coniferous and tropical broadleaved evergreen species and predominantly remains green throughout the year. Semi-evergreen is a forest type that includes a combination of evergreen and deciduous species with the former dominating the canopy cover. Deciduous forest types are of predominantly composed of species, which shed their leaves once a year, especially during summer. They exhibit bright red to dark red in color in varying sizes, smooth to medium texture depending on the crown density, contiguous to non-contiguous in pattern based on their location. The size can be irregular and discontinuous occupying medium relief mountain/hill slopes within the notified areas. Forest blank are the openings amidst forest areas, devoid of tree cover, observed as openings of assorted size and shapes as manifested on the imagery. They appear in light yellow to light brown in tone, generally small in size. They possess regular to irregular shape, scattered in the forested areas. Most of these areas are seen along hill tops/slopes midst forest areas. Forest blanks are also to be included in this category.

1.7.8.1. Dense/Closed

This category includes all the areas where the canopy cover/density is more than 40%.

1.7.8.2. Open/Degraded

This category includes all the forest areas where the canopy cover/density ranges between 10 – 40%.

1.7.9. Wastelands

Wasteland is described as degraded land which can be brought under vegetative cover with reasonable effort and which is currently underutilized and land which is deteriorating for lack of appropriate water and soil management or an account of natural causes. Wastelands can result from inherent / imposed disabilities such as by location, environment.

1.7.10. Dense Scrub

These areas possess shallow and skeletal soils, at times chemically degraded, extremes of slopes, severely eroded and lands subjected to excessive aridity with scrubs dominating the landscape. They have a tendency for intermixing with cropped areas.

1.7.11. Open Scrub

This category has a similar description as mentioned in the earlier class excepting that they possess sparse vegetation or devoid of scrub and have a thin soil cover.

1.7.12. Barren/Rocky/Stony Waste

These are rock exposures of varying lithology often barren and devoid of soil and vegetation cover. They occur amidst hill-forests as openings or as isolated exposures on plateau and plains. Such lands can be easily discriminated from other categories of wastelands because of their characteristic spectral response. They appear in greenish blue to yellow to brownish in color depending on the rock type. They vary in size with irregular to discontinuous shape with a linear to contiguous or dispersed pattern. They are located in steep isolated hillocks/hill slopes, crests, plateau and eroded plains associated with barren and exposed rocky/stony wastes, lateritic outcrops, mining and quarrying sites.

1.7.13. Water Bodies

This category comprises areas with surface water, either impounded in the form of ponds, lakes and reservoirs or flowing as streams, rivers, canals etc. These are seen clearly on the satellite image in blue to dark blue or cyan color depending on the depth of water.

1.7.13.1. River /Stream/Canal

Rivers/streams are natural course of water flowing on the land surface along a definite channel/slope regularly or intermittently towards a sea in most cases or a lake or an inland basin in desert areas or a marsh or another river. Depending upon the nature of availability of water, rivers are sub-divided into perennial or seasonal. They appear in light to dark blue in colour, long, narrow to wide depending on the size of the river. They appear in contiguous, at times non linear pattern and associated with drainage pattern on hill slopes, flood plains or uplands, at times with vegetation along the banks.

1.7.13.2. Lakes / Ponds

These are accumulation of water in a depression of various sizes either natural or saline Lakes / ponds are those that retain water in them either for one season or throughout the year and usually not subject to extreme fluctuation in water level. Ponds are body of water limited in size, either natural or artificial, regular in shape, smaller in size than a lake, generally located near settlements.

1.7.13.3. Reservoir / Tanks

Reservoir is an artificial lake created by construction of a dam across the river specifically for irrigation, and water supply for domestic/industrial needs, flood control, etc., either singly or in combination. Tanks are small lakes of impounded water ways constructed on land surface for irrigation. They appear in light blue to dark blue depending on the depth from small to large sizes. They possess regular to irregular shape dispersed to linear, occupying lowlands, plains. They are associated with croplands, low lands and reservoirs surrounded by hills with or without vegetation.

The total geographical area (TGA) of Hailakandi is 132700 hectare. The largest Block of the district is South Hailakandi which comprises of a TGA of 51,361 hectare i.e. about 38.7% of the TGA of the district.

Table 1.7(a): Land use pattern in Hailakandi District

Name of the Taluka	Nos of GP covered	Nos of villages covered	TGA	Area under Agriculture				Area under forest	Area under wasteland	Area under other uses
				GCA	NSA	AST	CI (%)			
Algapur	13	69	12426	10954	7937	3017	138	0	642	3847
Hailakandi	14	67	16113	13775	9811	1291	140.4	184	245	5873
Lala	18	86	44361	18256	14195	4061	129	18537	4281	7348
Katlicherra	8	41	8439	7392	4952	1220	149	493	632	2362
South Hailakandi	9	71	51361	9073	7252	1821	125	38386	1454	4269
Total	**62**	**334**	**132700**	**59450**	**44147**	**11410**	**136.28**	**57600**	**7254**	**23699**

Source: Department of Agriculture, Hailakandi
TGA- Total Geographical Area, GCA- Gross Cropped Area, NSA- Net Sown Area, AST- Area Sown more than once, CI- Cropping Intensity

Land use pattern of Hailakandi District comprising are given below:

Table 1.7(b): Land use pattern in Hailakandi District

1.	**Total Geographical Area**	**-**	**132700 ha.**
2.	Total Area under Forest	-	57600 ha.
3.	Total Cultivable Area	-	44147 ha.
4.	Total Area under Waste Land	-	7254ha.
5.	Total Area under other uses	-	23699ha.

Source: Department of Agriculture, Hailakandi

Chapter2

District water Profile

Irrigation is the artificial application of water to the land or soil. It is used to assist in the growing of agricultural crops, maintenance of landscapes, and revegetation of disturbed soils in dry areas and during periods of inadequate rainfall. There is a great necessity of irrigation in Indian agriculture. India has a great diversity and variety of climate and weather conditions. These conditions range from extreme of heat to extreme of cold and from extreme dryness to excessive rainfall. Due to some reasons irrigation is needed in Indian agriculture such as uncertainty of monsoon rainfall both in time and place, irregularity in distribution of rainfall throughout the year, excessive rainfall causing flood, draught is an annual event in some areas, minimum rainfall in winter period, dry soil, introduction of H.Y.V seeds and multiple cropping.

Hailakandi district being an agrarian economy, irrigation is to play a vital input, increased agricultural output to keep pace with food requirement and population. Owing to frequent occurrence of natural calamities – heavy rainfall etc. emphasis is to be given to creation of extensive irrigation facilities so that dependence on nature and uncertainty in agricultural production would be minimized. Expansion of irrigation facilities and control of flood menace, utilization of ground water potential tapping thereof at higher scale and common area development works would bridge the gap between supply and demand of water.

Large irrigation in a compact area for the district is not possible owing to undulating topography. However, medium and minor irrigation projects at foot hill belts can be created. There is acute need of resource support of centre for reconstruction and rejuvenation of irrigation structures along with taping of ground water potential of the district through PMKSY.

2.1 Area wise, Crop wise Irrigation Status:

Irrigation and drinking water supply facility constitutes the basic needs of the rural agricultural economy of hailakandi district. The Block-wise irrigation status of the district various agriculture and horticulture crops is represented graphically as under: -

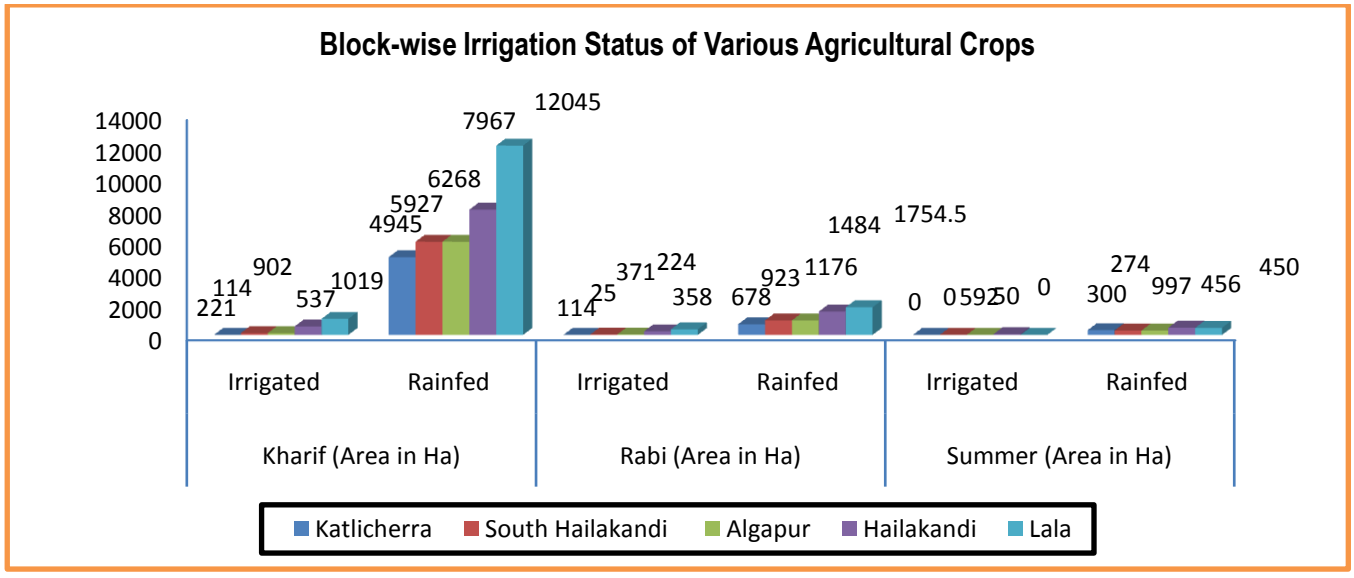


Figure. 2.1.1: Block-wise Irrigation Status of Various Agricultural Crops

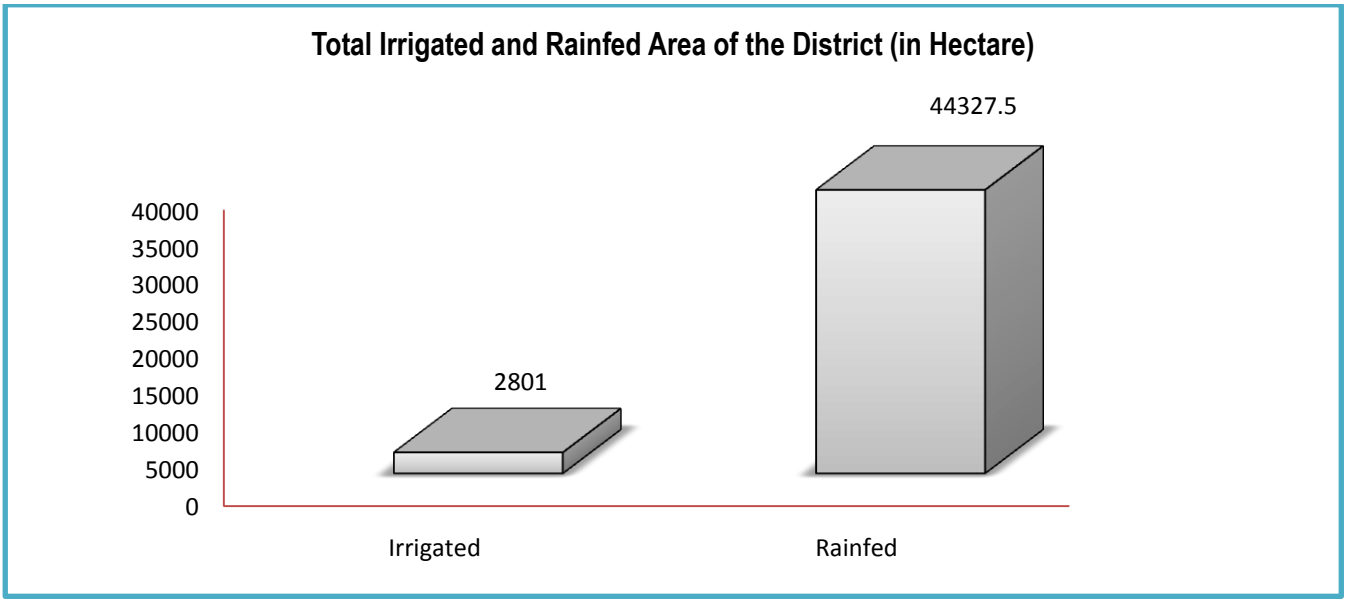
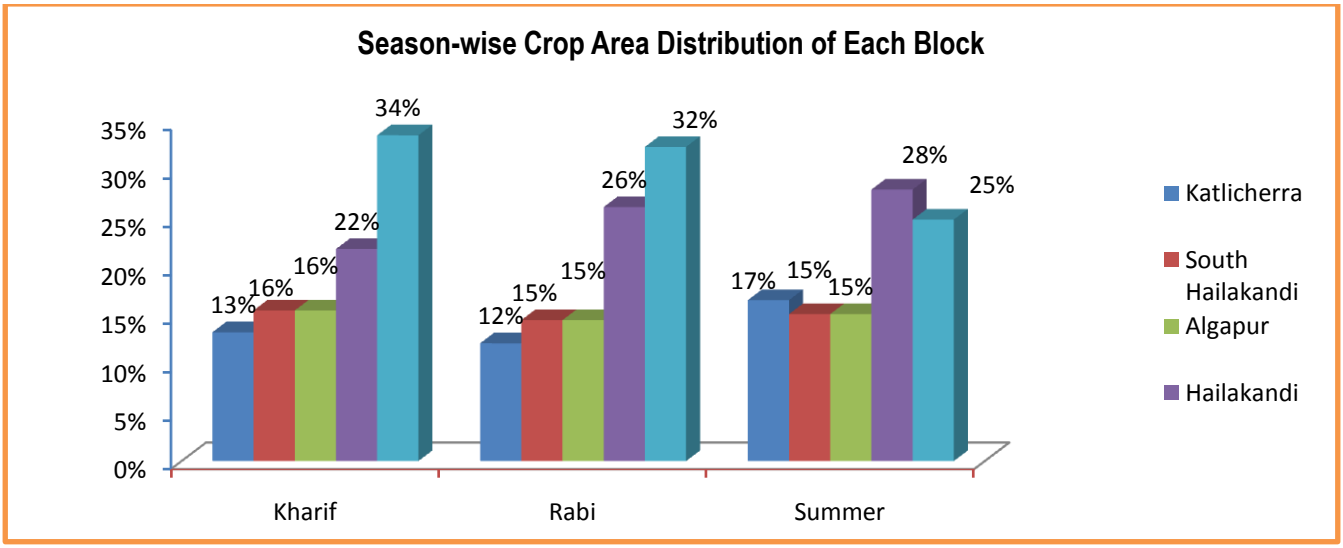


Figure. 2.1.2 District Irrigation Status of Cropped Area

As indicated in Fig. 2.1.2, the total irrigated area in the district under agricultural crops is 2801 Hectare and the rain-fed area is 44327.5 Hectare. Maximum irrigated area of agricultural crops is covered by LalaBlock, i.e., 1377 Hectare, out of which 1019 hectare shared by Kharif crops and 358 Hectare by Rabi crops.Similarly, the block has covered maximum of rain-fed areas of agricultural crops, i.e., 14249.5 Hectare, out of which a total of 12045 Hectare covered by Kharif crops, 1754.5 Hectare by Rabi crops and 450 Hectare by Summer crops.

Total irrigated area of agricultural crops covered by Hailakandi Blockis 811 Hectare, out of which 537. Hectare shared by Kharif crops, 224 Hectare by Rabi crops and 50 Hectare is shared by summer crops.Similarly, the block has covered total rainfed area of agricultural crops is 9907 Hectare, out of which a total of 7967 Hectare covered by Kharif crops, 1484 Hectare by Rabi crops and 456 Hectare by Summer crops.The 02 blocks – Algapur and South Hailakandi Block has covered the least and same irrigated and rain-fed areas under agricultural crops, i.e., 139 hectare irrigated and 7124 Hectare Rain-fed area in both the block.

The Block-wise percentage distribution of Kharif, Rabi and summer cropped area of the district is graphically represented below:-



As regards horticulture crops, the district has covered a total of 2974 Hectare of land under horticulture. All the Horticulture cropped area of the district is rain-fed. No irrigated area is under horticulture crops in the district. Lala Block has maximum of 1079 hectare horticulture cropped area followed by Hailakandi and katlicherra block with 856 hectare and 835 hectare respectively. The Block-wise horticulture crop area distribution of the district is represented graphically as follows:

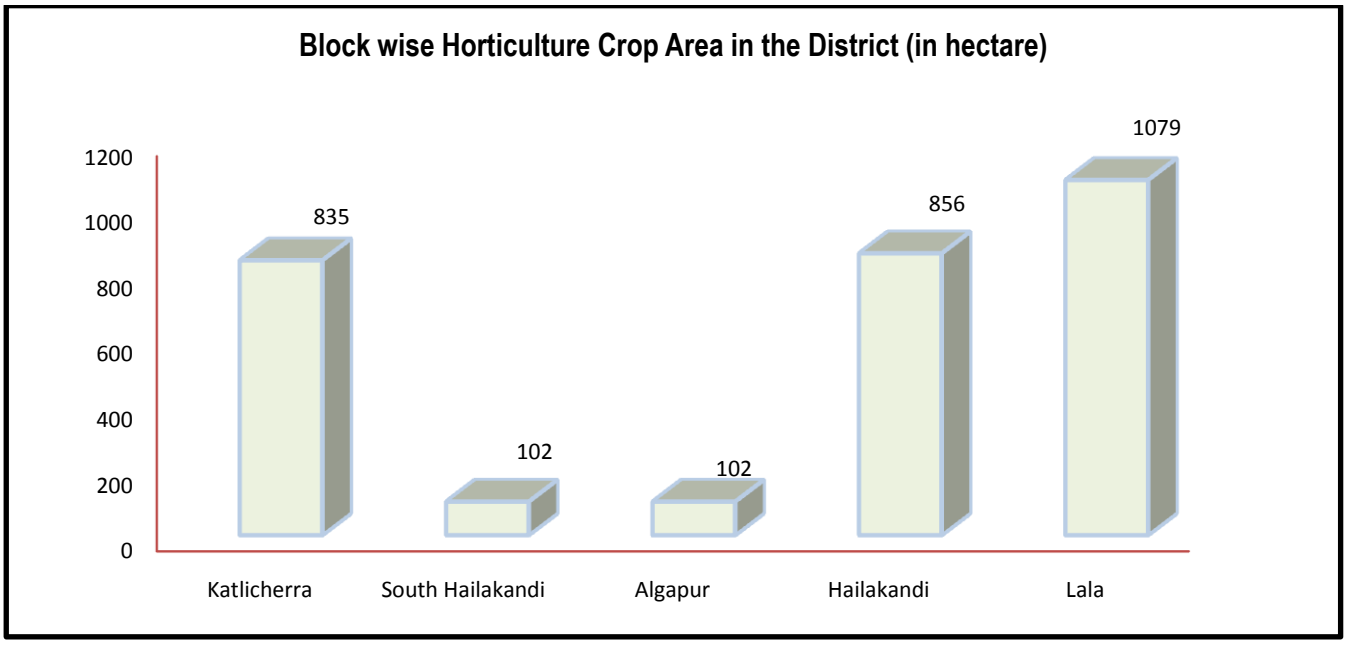


Figure 2.1.3: Block wise Area Under Rain-fed for Horticultural Crops

Table. 2.1. Area-wise, Crop-wise Irrigation status of Hailakandi District

Agriculture Crops

Block	Crop type	Kharif (Area in Ha)			Rabi (Area in Ha)			Summer (Area in Ha)			Total (Area in Ha)		
		Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total
Katlicherra	Cereal	210	4885	5095	00	0	0	0	0	0	210	4885	5095
	Coarse Cereal	0	0	0	0	0	0	0	0	0	0	0	0
	Pulses	00	0	0	47	288	335	0	110	110	47	398	445
	Oil Seeds	11	60	71	00	0	0	0	0	0	11	60	71
	Fibre	0	0	0	0	0	0	0	0	0	0	0	0
	Any other Crops (Potato)	0	0	0	33	152	185	0	0	0	33	152	185
	Winter Vegetable	00	0	0	34	238	272	0	0	0	34	238	272
	Summer Vegetable	0	0	0	0	0	0	0	190	190	0	190	190
	TOTAL	**221**	**4945**	**5166**	**114**	**678**	**792**	**0**	**300**	**300**	**335**	**5923**	**6258**
South Hailakandi	Cereal	114	5927	6041	0	0	0	0	0	0	114	5927	6041
	Coarse Cereal												
	Pulses	0	0	0	0	199	199	0	21	21	0	220	220
	Oil Seeds	0	0	0	13	215	228	0	0	0	13	215	228
	Fibre	0	0	0	0	0	0	0	0	0	0	0	0
	Any other Crops (Potato)	0	0	0	0	154	154	0	0	0	0	154	154
	Winter Vegetable	0	0	0	12	355	367	0	0	0	12	335	367
	Summer Vegetable	0	0	0	0	0	0	0	253	253	0	253	253
	TOTAL	**114**	**5927**	**6041**	**25**	**923**	**948**	**0**	**274**	**274**	**139**	**7104**	**7243**
Algapur	Cereal	902	6268	7170	0	0	0	592	627	1219	1494	6895	8389
	Coarse Cereal												
	Pulses	0	0	0	179	424	603	0	0	0	179	424	603
	Oil Seeds	0	0	0	17	42	59	0	0	0	17	42	59
	Fibre	0	0	0	0	0	0	0	0	0	0	0	0
	Any other Crops (Potato)	0	0	0	53	279	332	0	0	0	53	279	332
	Winter Vegetable	0	0	0	122	414	536	0	0	0	122	414	536
	Summer Vegetable	0	0	0	0	0	0	0	370	370	0	370	370
	TOTAL	**902**	**6268**	**7170**	**371**	**1176**	**1547**	**592**	**997**	**1589**	**1865**	**8441**	**10306**
Hailakandi	Cereal	537	7967	8504	0	0	0	50	81	131	587	8048	8635
	Coarse Cereal	0	0	0	0	0	0	0	0	0	0	0	0
	Pulses	0	0	0	83	584	667	0	0	0	83	584	667
	Oil Seeds	0	0	0	11	58	69	0	0	0	11	58	69
	Fibre	0	0	0	0	0	0	0	0	0	0	0	0

	Any other Crops (Potato)	0	0	0	41	338	379	0	0	0	41	338	379
	Winter Vegetable	0	0	0	109	504	613	0	0	0	109	504	613
	Summer Vegetable	0	0	0	0	0	0	0	375	375	0	375	375
	TOTAL	**537**	**7967**	**8504**	**224**	**1484**	**1728**	**50**	**456**	**506**	**831**	**9907**	**10738**
Lala	Cereal	1019	12045	13064	0	0	0	0	22	22	1019	12067	13086
	Coarse Cereal												
	Pulses	0	0	0	136	672	808	0	3	3	136	675	811
	Oil Seeds	0	0	0	23	87.5	110.5	0	0	0	23	87.5	110.5
	Fibre	0	0	0	0	0	0	0	0	0	0	0	0
	Any other Crops (Potato)	0	0	0	81	383	464	0	0	0	81	383	464
	Winter Vegetable	0	0	0	118	612	730	0	0	0	118	612	730
	Summer Vegetable	0	0	0	0	0	0	0	425	425	0	425	425
	TOTAL	**1019**	**12045**	**13064**	**358**	**1754.5**	**2112.5**	**0**	**450**	**450**	**1377**	**14249.5**	**15626.5**

Source: Department of Agriculture, Hailakandi District

Horticulture Crops

Block	Crop type	Horticulture & Plantation Crop (Area in Ha)		
		Irrigated	Rainfed	Total
Katlicherra	Cereal	00	835	835
	Coarse Cereal	0	0	0
	Pulses	0	0	0
	Oil Seeds	0	0	0
	Fibre	0	0	0
	Any other Crops (Potato)	00	0	0
	Winter Vegetable	0	0	0
	Summer Vegetable	0	0	0
	TOTAL	**0**	**835**	**835**
South Hailakandi	Cereal	0	102	102
	Coarse Cereal			
	Pulses	0	0	0
	Oil Seeds	0	0	0
	Fibre	0	0	0
	Any other Crops (Potato)	0	0	0
	Winter Vegetable	0	0	0
	Summer Vegetable	0	0	0

	TOTAL	**0**	**102**	**102**
Algapur	Cereal	0	648	648
	Coarse Cereal			
	Pulses	0	0	0
	Oil Seeds	0	0	0
	Fibre	0	0	0
	Any other Crops (Potato)	0	0	0
	Winter Vegetable	0	0	0
	Summer Vegetable	0	0	0
	TOTAL	**0**	**648**	**648**
Hailakandi	Cereal	0	856	856
	Coarse Cereal	0	0	0
	Pulses	0	0	0
	Oil Seeds	0	0	0
	Fibre	0	0	0
	Any other Crops (Potato)	0	0	0
	Winter Vegetable	0	0	0
	Summer Vegetable	0	0	0
	TOTAL	**0**	**856**	**856**
Lala	Cereal	0	1079	1079
	Coarse Cereal			
	Pulses	0	0	0
	Oil Seeds	0	0	0
	Fibre	0	0	0
	Any other Crops (Potato)	0	0	0
	Winter Vegetable	0	0	0
	Summer Vegetable	0	0	0
	TOTAL	**0**	**1079**	**1079**

Source: Department of Agriculture, Hailakandi District

2.2 Production & Productivity of Hailakandi District

Paddy, potato, pulses, oilseeds, vegetables etc. are the major cereals and food crops in the district. Among the horticulture crops, the most significant ones are banana, assam lemon, litchi, pineapple, coconut, mango, guava, jackfruit, papaya, orange, block pepper and areca nut and other medicinal and aromatic crops etc.

Block-wise Area production and Productivity of various Crops in the District

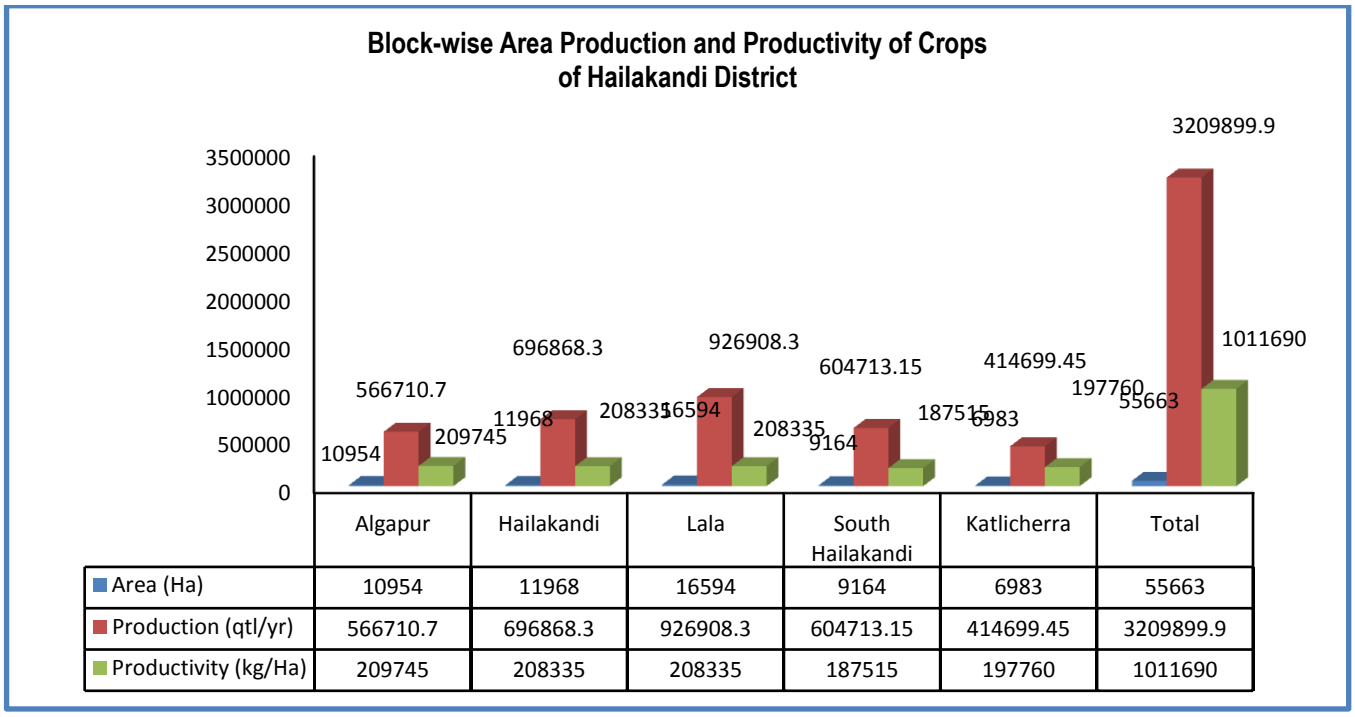
Name of the Block	Rainfed			Irrigated			Total		
	Area (Ha)	Production (qtl/yr)	Productivity (kg/Ha)	Area (Ha)	Production (qtl/yr)	Productivity (kg/Ha)	Area (Ha)	Production (qtl/yr)	Productivity (kg/Ha)
Algapur	9089	458050.4	164855	1865	108660.3	44890	10954	566710.7	209745
Hailakandi	11137	632864.4	167320	831	64003.9	41015	11968	696868.3	208335
Lala	15221	834707.4	167320	1373	92200.9	41015	16594	926908.3	208335
South Hailakandi	9025	596313.95	160525	139	8399.2	26990	9164	604713.15	187515
Katlicherra	6648	390525.05	162370	335	24174.4	35390	6983	414699.45	197760
Total	**51120**	**2912461.2**	**822390**	**4543**	**297438.7**	**189300**	**55663**	**3209899.9**	**1011690**

Source: - District Agriculture Department

The total area covered under agriculture and horticulture crop production in the district is 55,663 hectare.Algapur block has the highest area under irrigated cropping with 41 % of the total irrigated area of 4543 Hectare followed by Lala block with 30 %. Further, Lala block also ranks 1st in rain-fed area as it has highest area under rain-fed cropping with 30 % of total Rain-fed area of 51120 Hectare followed by Hailakandi Block with 22 %.Other blocks – Algapur and Katlicherra block both contributes only 20 % and 13 % whereas South Hailakandi block contributes 3 % and 18 % of the total irrigated and Rain-fed area of the district, respectively.

For rain-fed area production Lala Block contributes highest with 29 % of the total production of 2912461.5 Qtls/year, followed by Hailakandi of 22 %, South Hailakandi of 20 %, Algapur and Katlicherra of 16 % and 13 %irrespective to the area covered under rain-fed condition. As regards irrigated area production, Algapur block contributes highest with 37 % of total production of the district, i.e., 297438.7 Qtls/year, followed by Lala, Hailakandi, Katlicherra and south Hailakandi block.x

The highest yield in the district is of Algapur Block with 209745 kg/ha followed by both Hailakandi and Lala Block with 208335 kg/ha. The South Hailakandi Block is having lowest productivity in the district with 187515 kg/ha.



	Algapur	Hailakandi	Lala	South Hailakandi	Katlicherra	Total
Area (Ha)	10954	11968	16594	9164	6983	55663
Production (qtl/yr)	566710.7	696868.3	926908.3	604713.15	414699.45	3209899.9
Productivity (kg/Ha)	209745	208335	208335	187515	197760	1011690

Figure 2.2. 1: Area Production and Productivity of Crops

Table.2.2. Block-wise Production and Productivity of major Crops

Name of the Block	Season	Rainfed				Irrigated				Total			
		Area (Ha)	Production (qtl/yr)	Productivity (kg/Ha)	Cost of Cultivation (Rs/Ha)	Area (Ha)	Production (qtl/yr)	Productivity (kg/Ha)	Cost of Cultivation (Rs/Ha)	Area (Ha)	Production (qtl/yr)	Productivity (kg/Ha)	Cost of Cultivation (Rs/Ha)
Algapur	Kharif Cereal	6268	253854	4050	56328	902	45551	5050	60078	7170	299405	9100	116406
	Rabi												
	Pulse	424	4452	1050	30809	179	2416.5	1350	36900	603	6868.5	2400	67709
	Oil Seed	42	327.6	780	34216	17	159.8	940	37966	59	487.4	1720	72182
	Potato	279	27342	9800	134897	53	6201	11700	150900	332	33543	21500	285797
	Winter Vegetable	414	82800	20000	65489	122	25620	21000	69239	536	108420	41000	134728
	Summer Vegetable	370	26455	7150	65170	0	0	0	0	370	26455	7150	65170
	Summer Cereal (Boro)	627	24766.5	3950	50100	592	28712	4850	55120	1219	53478.5	8800	105220
	Horticultural & Plantation												
	Arecanut	335	2177.5	650		0	0	0	0	335	2177.5	650	
	Coconut	42	1953	4650		0	0	0	0	42	1953	4650	
	Pineapple	45	12619.94	28000		0	0	0	0	45	12619.94	28000	
	Banana	70	8751.466	12550	136988	0	0	0	0	70	8751.466	12550	136988
	Jackfruit	38	1843	4850		0	0	0	0	38	1843	4850	
	Mango	41	2040.96	5000		0	0	0	0	41	2040.96	5000	
	Guava	32	749.415	2350		0	0	0	0	32	749.415	2350	
	Litchi	11	733.47	6900		0	0	0	0	11	733.47	6900	
	Block Pepper	3	3.75	125		0	0	0	0	3	3.75	125	
	Papaya	14	4762.24	35000	139986	0	0	0	0	14	4762.24	35000	139986
	Orange	8	987.3144	12900		0	0	0	0	8	987.3144	12900	
	Assam Lemon	28	1431.223	5100		0	0	0	0	28	1431.223	5100	
	TOTAL	**9089**	**458050.4**	**164855**	**592485**	**1865**	**108660.3**	**44890**	**410203**	**10954**	**566710.7**	**209745**	**942610**
Hailakandi	Kharif Cereal	7961	394366.5	4950	56328	537	31414.5	5850	60078	8504	425781	10800	116406
	Rabi												
	Pulse	584	6132	1050	30809	83	1037.5	1250	34559	667	7169.5	2300	65368
	Oil Seed	58	417.6	720	34216	11	92.4	840	37966	69	510	1560	72182
	Potato	338	33124	9800	134897	41	4612.5	11250	138647	379	37736.5	21050	273544
	Winter Vegetable	504	104328	20700	65489	109	24034.5	22050	69239	613	128362.5	42750	134728
	Summer Vegetable	375	26812.5	7150	65170	0	0	0	0	375	26812.5	7150	65170
	Summer Cereal	81	4009.5	4950	57073	50	2812.5	5625	57573	131	6822	10575	114646
	Horticultural & Plantation												
	Arecanut	702	4387.5	625		0	0	0	0	702	4387.5	625	
	Coconut	99	4603.5	4650		0	0	0	0	99	4603.5	4650	
	Pineapple	86	24080	28000		0	0	0	0	86	24080	28000	
	Banana	114	14307	12500	136988	0	0	0	0	114	14307	12500	136988
	Jackfruit	70	3395	4850		0	0	0	0	70	3395	4850	
	Mango	52	2600	5000		0	0	0	0	52	2600	5000	
	Guava	40	940	2350		0	0	0	0	40	940	2350	
	Litchi	15.5	1069.5	6900		0	0	0	0	15.5	1069.5	6900	

	Block Pepper	5	6.25	125		0	0	0	0	5	6.25	125	
	Papaya	17	5950	35000	139986	0	0	0	0	17	5950	35000	139986
	Orange	6.5	838.5	12900		0	0	0	0	6.5	838.5	12900	
	Assam Lemon	29	1479	5100		0	0	0	0	29	1479	5100	
	TOTAL	**11137**	**632864.4**	**167320**	**599458**	**831**	**64003.9**	**41015**	**398062**	**11974**	**696850**	**214185**	**822796**
Lala	KharifCereal	12045	596227.5	4950	56328	1079	59611.5	5850	60078	13064	655839	10800	116406
	Rabi												
	Pulse	672	7056	1050	30809	136	1700	1250	34559	808	8756.5	2300	65368
	Oil Seed	87.5	630	720	34216	23	193.2	840	37966	110.5	823.2	1560	72182
	Potato	383	37534	9800	134897	81	9112.5	11250	138647	464	46646.5	21050	273544
	Winter Vegetable	612	126684	20700	65489	118	26019	22050	69239	730	152703	42750	134728
	SummerVegetable	425	30387	7150	65170	0	0	0	0	425	30387	7150	65170
	Summer Cereal	22	1089	4950	57073	0	0	0	0	22	1089	4950	57073
	Summer Pulse	3	34.5	1150		0	0	0	0	3	34.5	1150	
	Horticultural & Plantation												
	Arecanut	612	3825	625		0	0	0	0	612	3825	625	
	Coconut	90	4185	4650		0	0	0	0	90	4185	4650	
	Pineapple	66	18480	28000		0	0	0	0	66	18480	28000	
	Banana	104	13052	12500	136988	0	0	0	0	104	13052	12500	136988
	Jackfruit	65	3152	4850		0	0	0	0	65	3152	4850	
	Mango	42	2100	5000		0	0	0	0	42	2100	5000	
	Guava	33	775.5	2350		0	0	0	0	33	775.5	2350	
	Litchi	20.5	1414.5	6900		0	0	0	0	20.5	1414.5	6900	
	Block Pepper	6	7.5	125		0	0	0	0	6	7.5	125	
	Papaya	14	4900	35000	139986	0	0	0	0	14	4900	35000	139986
	Orange	6.5	838.5	12900		0	0	0	0	6.5	838.5	12900	
	Assam Lemon	19	969	5100		0	0	0	0	19	969	5100	
	TOTAL	**15221**	**834707.4**	**167320**	**599458**	**1373**	**92200.9**	**41015**	**398062**	**16534**	**926908.3**	**214185**	**822796**
South Hailakandi	Kharif Cereal	5927	240043.5	4050	56328	114	5757	5050	60078	6041	245800.5	9100	116406
	Rabi												
	Pulse	199	2089.5	1050	30809	0	0	0	0	199	2089.5	1050	30809
	Oil Seed	215	1677	780	34216	13	122.2	940	37966	228	1799.2	1720	72182
	Potato	154	15092	9800	134897	0	0	0	0	154	15092	9800	134897
	Winter Vegetable	355	71000	20000	65489	12	2520	21000	69239	367	73520	41000	134728
	Summer Vegetable	253	15559.5	6150	65170	0	0	0	0	253	15559.5	6150	65170
	Summer Pulse	21	130.2	620	22500	0	0	0	0	21	130.2	620	22500

	Horticultural & Plantation												
	Arecanut	389	2528.5	650		0	0	0	0	389	2528.5	650	
	Coconut	85	3952.5	4650		0	0	0	0	85	3952.5	4650	
	Pineapple	536	150080	28000		0	0	0	0	536	150080	28000	
	Banana	264	33132	12550	136988	0	0	0	0	264	33132	12550	136988
	Jackfruit	165	8002.5	4850		0	0	0	0	165	8002.5	4850	
	Mango	116	5800	5000		0	0	0	0	116	5800	5000	
	Guava	95	2232.5	2350		0	0	0	0	95	2232.5	2350	
	Litchi	30	2070	6900		0	0	0	0	30	2070	6900	
	Block Pepper	5	6.25	125		0	0	0	0	5	6.25	125	
	Papaya	102	35700	35000	139986	0	0	0	0	102	35700	35000	139986
	Orange	18	2322	12900		0	0	0	0	18	2322	12900	
	Assam Lemon	96	4896	5100		0	0	0	0	96	4896	5100	
	TOTAL	**9025**	**596313.95**	**160525**	**564885**	**139**	**8399.2**	**26990**	**167283**	**9164**	**604713**	**187515**	**672090**
Katlicherra	Kharif Cereal	4885	241807.5	4950	56328	210	12285	5850	60078	5095	254092.5	10800	116406
	Rabi												
	Pulse	288	3024	1050	30809	47	587.5	1250	34559	335	3611.5	2300	65368
	Oil Seed	60	432	720	34216	11	92.4	840	37966	71	524.4	1460	72182
	Potato	152	14896	9800	134897	33	3712.5	11250	138647	185	18608.5	21050	273544
	Winter Vegetable	238	49266	20700	65489	34	7497	22050	69239	272	56763	42750	134728
	Summer Vegetable	190	13585	7150	65170	0	0	0	0	190	13585	7150	65170
	Horticultural & Plantation												
	Arecanut	319	1993.8	625		0	0	0	0	319	1993.8	625	
	Coconut	58	2697	4650		0	0	0	0	58	2697	4650	
	Pineapple	196	54880	28000		0	0	0	0	196	54880	28000	
	Banana	64	8032	12500	136988	0	0	0	0	64	8032	12500	136988
	Jackfruit	65	3152.5	4850		0	0	0	0	65	3152.5	4850	
	Mango	42	2100	5000		0	0	0	0	42	2100	5000	
	Guava	25	587.5	2350		0	0	0	0	25	587.5	2350	
	Litchi	10.5	724.5	6900		0	0	0	0	10.5	724.5	6900	
	Block Pepper	3	3.75	125		0	0	0	0	3	3.75	125	
	Papaya	12	4200	35000	139986	0	0	0	0	12	4200	35000	139986
	Orange	8.5	1096.5	12900		0	0	0	0	8.5	1096.5	12900	
	Assam Lemon	32	1632	5100		0	0	0	0	32	1632	5100	
	TOTAL	**6648**	**390525.05**	**162370**	**542385**	**335**	**24174.4**	**35390**	**340489**	**6983**	**160607**	**203510**	**792796**

2.3 Irrigation Based Classified

Hailakandi District the rain-fed crop covers 90.23% of the total cropped area and remaining 9.77% cropped area is irrigated. The Block-wise details of irrigation based classification of the district is given below:-

Table 2.3: Irrigation Based Classification of the District

Block	Irrigated (Area in Ha)			Rainfed (Area in Ha)
	Gross Irrigated Area	Net Irrigated Area	Partially Irrigated/Protected Irrigation	Un-Irrigated or Totally Rainfed
Algapur	1865	902	963	8126
Hailakandi	927	831	96	11041
Lala	1373	1235	138	15083
Katlicherra	335	335	00	6648
South Hailakandi	171	139	32	8993
Total	**4671**	**3442**	**1229**	**49891**

From the table above, it is observed that a total of 4671 Hectare land of the district as irrigated area and 49891 Hectare area is unirrigated. Net irrigated area of the district is 3442 Hectare and partially irrigated area is 1229 Hectare.Algapur Block of the district has maximum irrigated area of 1865 Hectare and Lala Block has maximum unirrigated area of 150839 Hectare.Thus, there is ample potential to increase the irrigated command area of the district from the gross total area of the district.

Chapter 3

District Water Availability

Hydrogeology

The ground water conditions in the district can be described under two distinct hydro geological units, i.e. conditions prevailing in the semi-consolidated formations and conditions prevailing in the unconsolidated formations.

i) Semi-Consolidated Formations: A very narrow belt of Upper Tertiary semi-consolidated rock formation engulf the northern fringe area of the district with Bhutan consisting mainly claystone/siltstone/sandstone and form low to moderate altitude denudation structural hills. The trend of hills is generally in E-W direction. These are characterized by high run off, low infiltration to groundwater and experience secondary porosity development through cracks/joints/bedding planes. Springs are developed in this belt.

ii) Unconsolidated Formations: Major parts of the district are underlain by unconsolidated formations represented by the alluvial deposits of recent age. Bhabar formation comprises of the alluvial sediments at the foothill belt in the north and the valley covering the central and southern part. The behaviour of ground water in the piedmont sediments is naturally different from that in the alluvial areas occurring further south.

Bhabar-Terai Belt: This zone consists of the terrace deposits in the foot hill regions of the Himalayas composed of talus fans. The material is a heterogeneous admixture of boulders, pebbles, cobbles with the interstices filled by sand and silt. These sediments are highly permeable with low retentive capacity. Thus, the streams in this region are devoid of any appreciable surface flow, although, there are evidences of sub-surface flow. Behaviour of ground water in the further south is less erratic. Here, ground water occurs under water table conditions. The depth to water level is rather high.

Older Alluvium: Ground water occurs under water table conditions in the elevated flat-topped areas of Older alluvial sediments. These areas are usually forested. It comprises of sand, gravel and silt with higher proportion of clay. Ground water occurs under unconfined to confined conditions.

Newer Alluvium: The district is mostly covered by newer alluvium and the formation comprises of sand, gravel and pebble with silt and clay. Ground water in this zone occurs under unconfined condition.

Based on the behaviour and occurrence of ground water, the regional ground water flow system of district has been described under following categories.

i. Shallow Aquifer Group (occurring within 50 m depth):

It consists of a mixture of boulder, gravel, sand, silt and clay. The thickness of the aquifer varies from 15 to 40 m. Ground water in this aquifer generally occurs under water table to semi-confined conditions. The pebbles, boulders are restricted mostly to the northern parts of the district. They occur at the depth between ground level to 50 m below ground level. The development of ground water from this aquifer is done by open well and shallow tube well for both the domestic and irrigation purposes. The water level in the major parts of the district generally lies between 2 to 4 m below ground level. The northern most parts occupied by the piedmont zones and the areas

adjoining to the border area are having deeper water level. The movement of ground water is southerly towards Brahmaputra River. The water table contour follows the topography of the area and lies more or less parallel to the Brahmaputra River. The hydraulic gradient becomes gentler towards south.

ii. Deeper Aquifer Group (beyond the depth of 50 m and down to 200 m below ground level):

It consists of coarse to medium sand with intercalation of clay. Ground water occurs under water table to confined conditions. Detailed hydrogeological surveys aided by exploratory drilling revealed the existence of two to three promising aquifer zones down to the depth of maximum 200 m below ground level. Aquifer displays various degree of lateral and vertical variation of aquifer indicating various degree of depositional environment both in space and time. The piezometric surface is highly variable and the movement of ground water is towards the south.

Ground water of both shallow and deeper aquifers is suitable for irrigational and industrial purposes. Ground water having a little higher concentration of iron can be used after treatment.

Shallow ground water structures are congenial for construction in the district, as water resource and aquifer material are laterally persistent throughout the district. Dug wells and dug-cum-bore wells especially near the border area are beneficial. Deep tube well can be constructed preferably below the depth of 50 m tapping aquifer zone with an expected discharge of about 100 m3/hr.

3.1 Status of Water Availability

As reported by the IPH Hailakandi, mostly surface irrigation systems prevail in the district. With the facility of irrigation through canals, a total area of **11763**hectare is being irrigated in the district.

Table 3.1: Water availability in Hailakandi

3.1 Status of Water Availability				
				MCM per Ha
Sources	Kharif	Rabi	Summer	Total
Surface Irrigation				
Canal(Major & Medium Irrigation)	0.000078	0.00001999	0	0.00009799
Minor Irrigation tanks	0.00078699	0.001041	0.00050599	0.00233398
Lift Irrigation/Diversion	0.000046	0.000084	0.000039	0.000169
Various water Bodies including Rain Water Harvesting				
Treated Effluent Received from STP				
Untreated Effluent				
Perennial sources of water	0.000542	0.00108199	0.000344	0.00196798
Surface Irrigation Total	0.001453	0.00222698	0.000889	**0.00456895**
Ground Water				
Open Well				
Deep Tube Well	0.0000499	0.000065	0.000022	0.0001369
Medium Tube Well				
Shallow Tube Well	0.000006	0.00001499	0.000008	0.00002899
Ground Water Total				**0.00016589**
Total Water Availability in the district				**0.00473484**

Source: CWC, CGWB, District Irrigation and Agriculture office records

3.2 Status of Ground Water Availability

As per Central ground water resource board, major part of the district is covered by hills of consolidated rocks. In the absence of any ground water structure at present in the mountainous areas, springs constitutes an important source of water supply. However, mostly the springs are choked due to dirt, orare covered with vegetation. It is worthwhile to develop these springs. The foothill zone is suitable for the development of ground water through structures like dug wells,hand pumps and shallow tube wells the piedmont zone is suitable for dug wells, generally 15m deep. The younger alluvium is suitable for all the shallowground water structures. Dug wells down with depth of 10 to 20m having diameter 2 to 3 m are expected to yield 12 to 15 m3/day. Shallow tube wells with depth of 25 m are likely to yield 30 to 35m3/hr.Towards the southern part of the district, bordering Assam, the depth of alluvium increases and deep tube wells down to 150m may be constructed in this area. Expected yield is 40 to 60 m3/hr.

Table: 3.2 Status of Ground Water Availability

Sr. No.	Block	Status of Block as per Central Ground water Board Notification			Ground Water (BCM)	
		Critical	Semi-critical	Safe	Draft	Recharge
1	Algapur			Safe	0.20119	0.34279
2	Hailakandi			Safe		
3	Lala			Safe		
4	Katlicherra			Safe		
5	South Hailakandi			Safe		

Source: Central Ground Water Resource Board

District ground water resource are fall under safe zone.

3.3 Status of Command Area

As per records of the Water Resources Department of the district, the village-wise status of canal command is not available. However, only the status of other service command area in the form of minor irrigation like open well, tube well and Shallow Tube Well is available with the dept. The Block-wise details of command area of the district is given below in figure 3.3.1:-

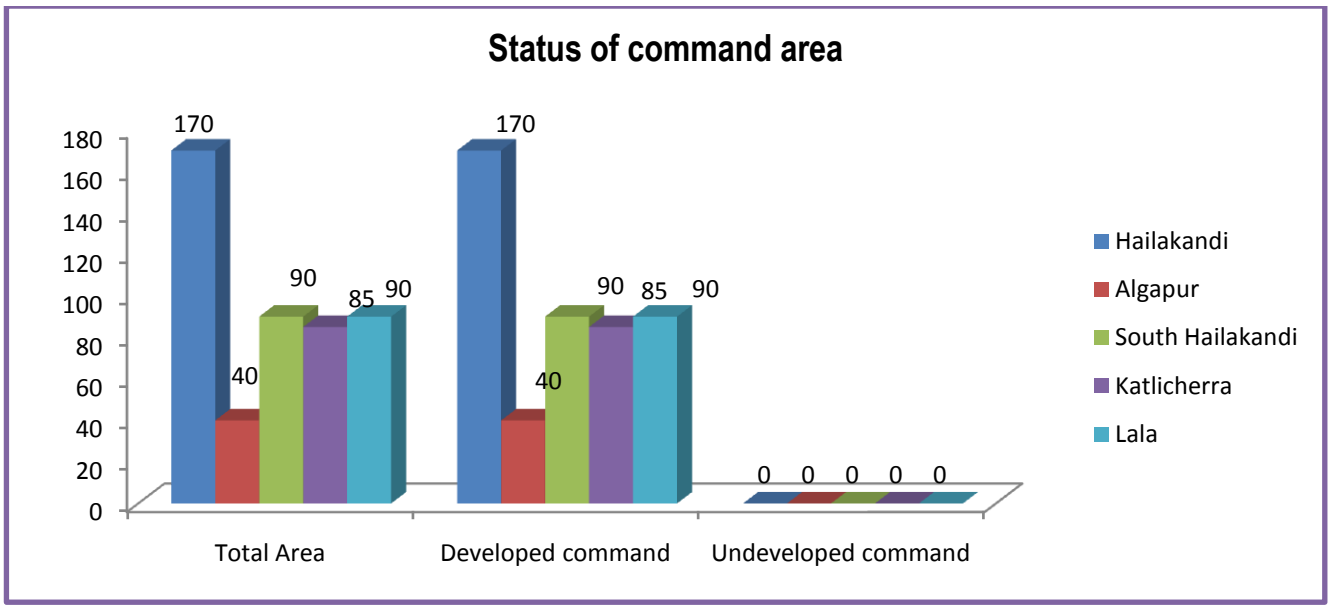


Figure: 3.3.1- Block-wise Status of other Service Command Area of the District

Table 3.3: Status of Command area

Block Name	Sr. No	Name of the Village	Information of Canal Command			Information on the other Services Command			Total Area	
			Total Area	Developed Area	Undeveloped Area	Total Area	Developed Area	Undeveloped Area	Developed command	Undeveloped command
	1	2	3	4	5	6	7	8	4+7	5+8
Hailakandi	1	ELIS in MatijuriPh-I under MatijuriPaikan G.P	-	130	-	-	-	-	130	
	2	Modernisation of Matijuri ELIS under SudarshanpurBandukmara G.P	-	10	-	-	-	-	10	
	3	Tank Irrigation scheme at Chownibasti under Bhatirkupa G.P	-	30	-	-	-	-	30	
Algapur	1	Dholidhar Grant TIS at Pedlapunji under Uttar Kanchanpur G.P	-	40	-	-	-	-	40	
South Hailakandi	1	LIS in Manipur Niskar under Manipur Niskar G.P	-	50	-	-	-	-	50	
	2	Moinanala FIS under GharmuraBaghcherra G.P	-	40	-	-	-	-	40	
Katlicherra	1	Rongpur part-iv,Katlicherra	-	60	-	-	-	-	60	
	2	Dinonathpur	-	25	-	-	-	-	25	
Lala	1	Mohamedpur	-	40	-	-	-	-	40	
	2	TantooDakshinJosnabad	-	30	-	-	-	-	30	
	3	Uttar Josnabad	-	20	-	-	-	-	20	
Total			**-**	**475**	**-**	**-**	**-**	**-**	**475**	

The percentage distribution of Block-wise other service command Area of the district is represented below:

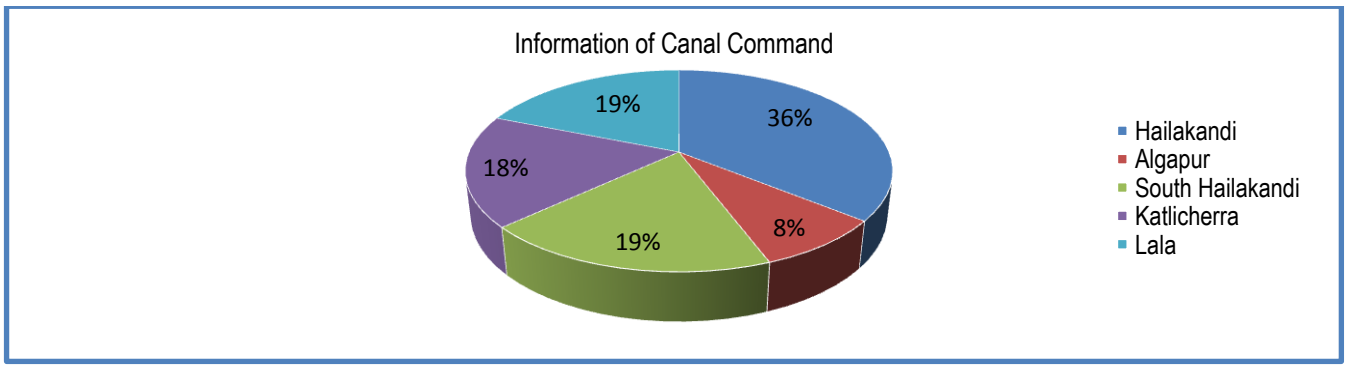


Figure: 3.3.2 Percentage Distribution of Block-wise Command Area of the District

From Fiigure: 3.3.2, it is observed that Hailakandi Block of the district has occupied the maximum command area with 36% of total command area of the district, while South Hailakandi and Lala District occupied 19% of the total command area and Katlicherra and Algapur Block occupied with 18% and 8% respectively.

3.4 Existing Type of Irrigation

District economy being largely agrarian, irrigation is to play vital input, increased agricultural output to keep pace with food requirement and population. The major source of surface irrigation of the district are Rivers, rain water and Streams &nallas to irrigate.

Large irrigation in a compact area for the district is not possible owing to undulating topography. However medium irrigation projects at foot hill belts are to be taken up. There is acute need of resource support forreconstruction and rejuvenation of irrigation structures along with taping of ground water through PMKSY.The Existing Type of Irrigation in the district is summarized in Table: 3.4 (a) and 3.4 (b)

Table 3.4(a): Existing type of surface irrigation sources (in Numbers)

Block	Surface Irrigation (1)					Ground Water (2)						Other Sources including Traditional WHS (3)	Treated Affluent Discharge from STP	Water Extraction Device /Lift			Total	
	Canal Based		Tank/Pond/Reservoir			Tube Well		Open Well		Bore Well								
	Govt. Canal	Community/ Pvt. Canal	Community Pond including small	Individual/ Pvt. Pond	Govt. Reservoir/ Dams	Govt.	Pvt.	Community / Govt.	Pvt.	Govt.	Pvt.			Electrical Pump (4)	Diesel Pump (5)	Other (6)	Irrigation Sources (1+2+3)	Water Extraction Units (4+5+6)
Algapur	04		47	2157								45		118.00	667		2253	758
Hailakndi	04		30	2871		8						30		02+100	271		2943	373
Lala	03		19	747										13	84		769	97
Katlicherra	04		15	691								7		02+49	51		717	102.00
South Hailakandi	04		59	879								13		97.00	373		955	470
Total	**19**		**170**	**7345**		**8**						**95**		**381**	**1446**		**7637**	**1800**

Table 3.4(b): Existing type of surface irrigation sources (in Numbers)

Block	Surface Irrigation (1)					Ground Water (2)						Other Sources including Traditional WHS (3)	Treated Affluent Discharge from STP	Water Extraction Device /Lift			Total	
	Canal Based		Tank/Pond/Reservoir			Tube Well		Open Well		Bore Well								
	Govt. Canal	Community/ Pvt. Canal	Community Pond including small	Individual/ Pvt. Pond	Govt. Reservoir/ Dams	Govt.	Pvt.	Community / Govt.	Pvt.	Govt.	Pvt.			Electrical Pump (4)	Diesel Pump (5)	Other (6)	Irrigation Sources (1+2+3)	Water Extraction Units (4+5+6)
Algapur	80		100	4325								90		236	1334			1570
Hailakndi	43		73	671.5		16						60		204	542		863.5	746
Lala	30		39	132										26	168		201	194
Katlicherra	48		29	223								35		102	102		335	204
South Hailakandi	34		221	801								26		194	746		1082	940
Total	**235**		**462**	**6152.5**		**16**						**211**		**762**	**2892**		**2481.5**	**3654**

Source: District Agriculture & Irrigation Department

Chapter 4

Water Requirement/Demand

The earlier chapters dealt with the general profile, water profile and water availabilityof Hailakndi district. The present chapter deals with the current (2016) and projected (2020) demand of water for various sectors. The demand for water has been assessed on the basis of data obtained from different departments.

The foregoing Chapters deal with the General Profile, Water Profile and Water Availability of Hailakandi District. The present chapter deals with the current (2015) and projected (2020) demand of water for various sectors. The demand for water has been assessed on the basis of data obtained from different departments.

4.1 Domestic Water Demand

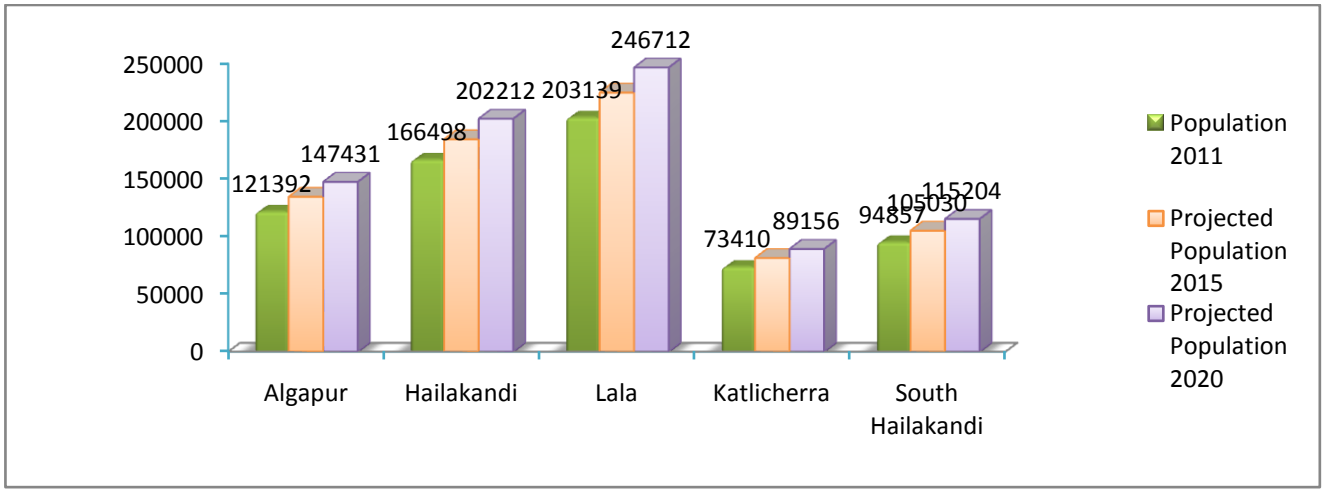
According to Froukh the term 'domestic water demand' is the amount of water required for domestic uses. Water demand forecasting is essential to water utilities, both for day-to-day operations and for long-term planning. A number of factors like climate, culture, food habits, work and working conditions, level and type of development, and physiology determine the requirement of water. As per the Bureau of Indian Standards, a minimum water supply of 200 litres per capita per day (lpcd) should be provided for domestic consumption in cities with full flushing systems. It also mentions that the amount of water supply may be reduced to 135 lpcd for the LIG and the economically weaker sections (EWS) of the society and in small towns.

Data of Census 2011 and 2001 has been considered to arrive at the growth rate of population of the district.As per Census 2011, the district has shown an annual growth rate of 2.145%. Table 4.1 below indicates the current and projected block-wise population of the district. Current population (in 2015) has been calculated by assuming a growth of 10.72% over a period of 5 years (from 2011-2015). Projected population has been calculated in similar way by assuming a growth of 10.72 % over the period of five years (from 2015-2020).

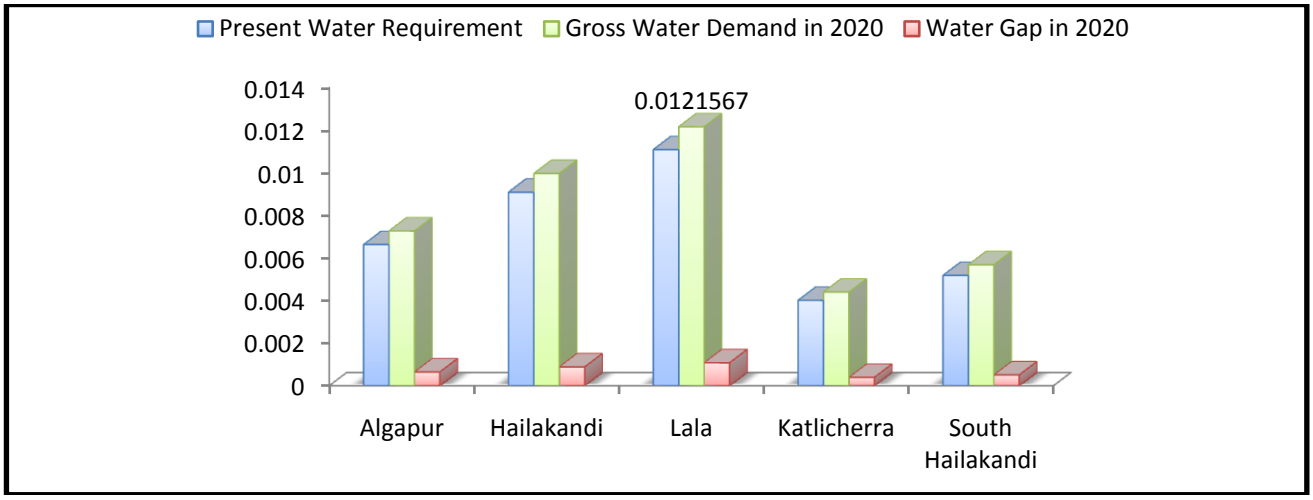
Table 4.1: Domestic Water Demand

Block	Population in 2011	Decadal Growth Rate	Projected Population in 2015	Present water Demand	Projected Population in 2020	Gross Water Demand in 2020	Water Gap in 2020 (BCM)
Algapur	121392	21.45	134411	0.0066231	147431	0.0072647	0.0006416
Hailakandi	166498	21.45	184355	0.0090841	202212	0.0099639	0.0008798
Lala	203139	21.45	224925	0.0110832	246712	0.0121567	0.0010735
Katlicherra	73410	21.45	81283	0.0040052	89156	0.0043932	0.000388
South Hailakandi	94857	21.45	105030	0.0051744	115204	0.0056767	0.0005023
Total	**659296**	**21.45**	**730004**	**0.03597**	**800715**	**0.0394552**	**0.003485**
							Calculated as 135 litres per person per day
							Calculated Gross water Demand for a Year

Graph: 4.1.1: Block wise Population of Hailakandi District



Graph: 4.1.2: Block wise Water Demand in 2020



Graph: 4.1.3: Water Gap in 2020

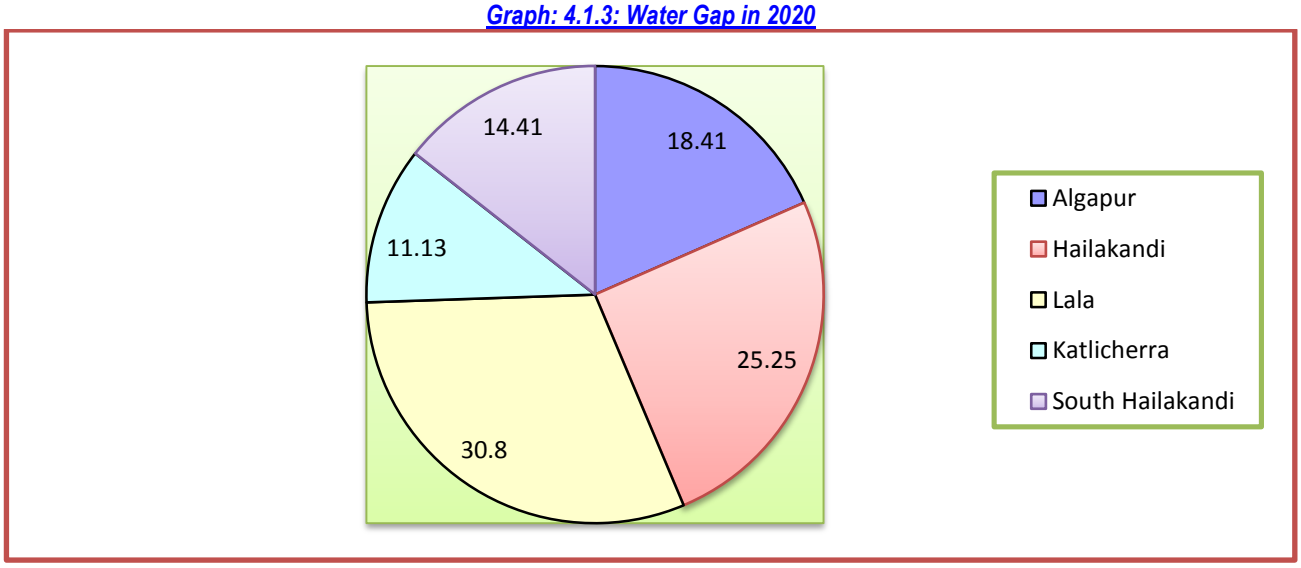
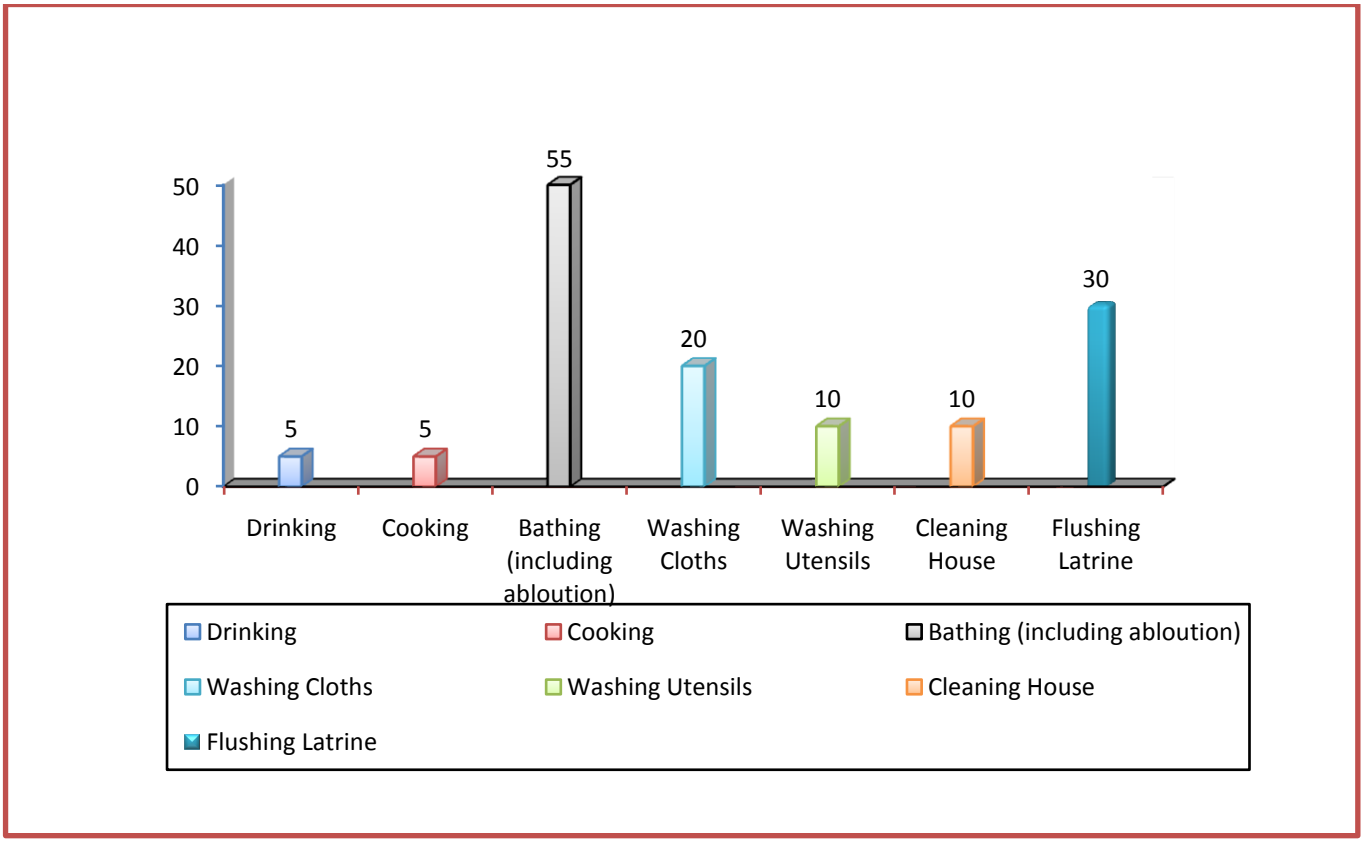


Table: 4.1.1: Average Domestic Water Consumption

Sr No	Use	Consumption in Liter per person per day
1	Drinking	5
2	Cooking	5
3	Bathing (including abloution)	55
4	Washing Cloths	20
5	Washing Utensils	10
6	Cleaning House	10
7	Flushing Latrine	30
TOTAL		135

Source: Central Public Health and Environmental Engineering Organization (CPHEEO India Water Portal)

Graph: 4.1.4: Domestic use of Water of a Human Being



It can be inferred from the above tables that considering the growth rate for district as 21.45% per decade and total population for the district as per 2011 census 659296, projected population is 800715. Taking into consideration, the average per capita Domestic water requirement as 135 liters per day; based on this information Gross water Demand for Whole District in current year is **0.03597**BCM per annum. The projected gross water demand in 2020 is **0.0394552**BCM for per annum. Thus water gap is **0.003485**BCM for district Hailakandi per annum.

4.2 Crop water Requirement:

It is essential to know the water requirement of a crop which is the total quantity of water required from its sowing time up to harvest. Naturally different crops may have different water requirements at different places of the same country, depending upon the climate, type of soil, method of cultivation, effective rain etc. The total water

required for crop growth is not uniformly distributed over its entire life span which is also called crop period. Actually, the watering stops same time before harvest and the time duration from the first irrigation during sowing up to the last before harvest is called base period. Though crop period is slightly more than the base period, they do not differ from practical purposes.

As discussed in Chapter 2, cereals are cultivated on major part of the gross cropped area in the district. Hence, the crop water requirement for major cereals as assumed by State Agricultural University has been taken into consideration.

Crops	Water requirement (mm)	Irrigation requirement(mm)
Rabi groundnut	731-751	60
Jute	400-500	120-240
Sunflower	230-280	120-180
Rajmah	160-170	120-180
Fodder Oats	186-336	120-180
Cabbage	230-280	160-200
Tomato	275-330	200-240
Brinjal	300-350	200-280
Chilli	250-350	160-200
Carrot	220-250	90-150
Coriander	280-340	200-240
Broccoli	150-200	120-160
Yellow sarson	150-200	80
Gladiolus	180-200	120

Source: Presentation of DR R K THAKURIA, Chief Scientist, AICRP ON IRRIGATION WATER MANAGEMENT, AAU Jorhat-785 013

Rice

- 1000mm to 1500mm for heavy soils or high water table
- 1500mm to 2000mm for medium soils
- 2000 to 2500 for light soils or deep water table
- 1600mm for upland conditions

Wheat

- 250mm to 400mm in northern India
- 500mm to 600mm in Central India

Barley: 450mm

Maize

- 100mm during rainy season
- 500mm during winter season
- 900mm during summer season

Cotton: 400 – 500mm

Sugarcane

- 1400mm to 1500mm in Bihar
- 1600mm to 1700mm in Andhra Pradesh

- 1700mm to 1800mm in Punjab
- 2200mm to 2400mm in Madhya Pradesh
- 2800mm to 3000mm in Maharashtra

This information is based on Handbook of Agriculture (fifth edition, 2000) published by the Indian Council of Agricultural Research.

Table: 4.2 Crop Water Requirement of Hailakandi District

Crops	Area Sown (Ha)	Irrigated Area (Ha)	Crop Water Demand (mm)	Water Potential Required (BCM)	Existing Water Potential (BCM)	Water Potential to be Created (BCM)
Rice (Autumn, Winter & Summer)	45290	1852	1200	0.54348	0.022224	0.491259
Maize	00	00	650	000	000	000
Pulses	3973	162	400	0.015892	0.000648	0.015244
Oil Seeds	204	9	400	0.000816	0.000036	0.00078
Fiber	00	00	2000	000	000	000
Vegetable (Kharif & Rabi)	7071	289	700	0.049497	0.002023	0.047474
Fruit	9436	386	1800	0.169848	0.006948	0.1629
Other Crops (Horticulture Crops)	1762	72	300	0.005286	0.000216	0.00507
TOTAL	**67736**	**2770**		**0.784819**	**0.032095**	**0.752724**

Based on consumption

4.3 Livestock water Demand:

Global trend in animal production indicates a rapid and massive increase in the consumption of livestock products. It is predicted that meat and milk consumption will grow at 2.8 and 3.3% per annum, respectively, in developing countries like India where the whole system of rural economy has revolved around livestock production. Providing enough quality water is essential for good livestock husbandry. Water makes up 80% of the blood, regulates body temperature and is vital for organ functions such as digestion, waste removal and the absorption of nutrients. Understanding daily livestock watering needs is key when designing a livestock watering system.

The daily water requirement of livestock varies significantly among animal species. The animal's size and growth stage will have a strong influence on daily water intake. Consumption rates can be affected by environmental and management factors. Air temperature, relative humidity and the level of animal exertion or production level are examples of these factors. The quality of the water, which includes temperature, salinity and impurities affecting taste and odour, will also have an effect. The water content of the animal's diet will influence its drinking habits. Feed with relatively high moisture content decreases the quantity of drinking water required.

Given that drinking water needs are species-, farm- and management-specific, many producers today are opting to install water-metering equipment to obtain accurate measurements of water use. If medication is ever provided through the livestock's watering system, the meter can be used to ensure proper dose rates.

Table 4.3 presents block-wise water demand for livestock for current year and for 2020. Number of livestock as per report of the District Veterinary Department. Estimation is done based on livestock water demand which is different for types of animals. There is no additional water requirement as stored water is more than water requirement. 25% of water is reserved for this purpose in all current and future structures.

Table: 4.3: Livestock Water Demand

Block	Total No. of Livestock/ Wild life	Present Water Demand (BCM)	Water Demand in 2020 (BCM)	Existing Water Potential (BCM)	Water Potential to be Created (BCM)
Algapur	269966	0.0000036896243	0.000008188725	0.0000036896243	0.0000044991007
Hailakandi	221641	0.000003071715	0.000006770677	0.000003071715	0.0000036989620
Lala	281309	0.0000038813113	0.000009129572	0.0000038813113	0.0000052482607
Katlicherra	261441	0.0000036996284	0.000007796379	0.0000036996284	0.0000040967506
South Hailakandi	284891	0.0000040283772	0.000008624335	0.0000040283772	0.0000045959578
TOTAL	**1319248**	**0.0000183706562**	**0.0000405096880**	**0.0000183706562**	**0.0000221390318**

Calculated Gross Water Demand for a year

Table: 4.3.1 Water Consumption by Animal/Bird

Sr. No	Livestock Category	Water Requirement Range	Average Water Use L/Day
1.	Poultry	0.16-0.24	0.20
2.	Small Animal	13-20	16.50
3.	Large Animal	39-59	49.0

Source: Adapted from Nutrient requirements of poultry, Sheep, Cattles. 9th edition. Washington, D.C.: National Research Council, 1994,

Table: 4.3.2 Water Consumption by Wild Life

Sr. No	Wild Life Category	Water Requirement Range	Average Water Use L/Day
1.	Small Animal	0-20	10
2.	Medium Animal	20-30	25
3.	Large Animal	30-60	45

4.4 Industrial Water Requirement

In Assam, growth of industry is very low and consumption of water is also low. In Hailakandi District, Hindustan Paper Mill and 17 (Seventeen) Tea Gardens are available with some Agro based small scale industries like Rice Mill, Spice Mill, Oil Mill. The main sources of water for the industrial sector are groundwater and surface water. Groundwater has emerged as an important source to meet the water requirements of industries. Choice of source of water depends on the availability of sufficient and regular supply of water and the cost of water from the source. While the running cost of surface water is mainly the price paid to the supplier—the municipal bodies; the cost of groundwater is the extraction cost—energy used (electricity/diesel). Since the prices of all the inputs, water, electricity, and diesel are administered or regulated by the government, the inefficient use of water remains a normal practice. Since the surface water supply from municipal sources is not sufficiently guaranteed, industrial units tend to depend on groundwater.

Industrial water requirement for the year 2020 is estimated at **0.1672448 BCM** and present demand is **0.1337958 BCM**. Data is obtained from CGWB report on Hailakandi district.

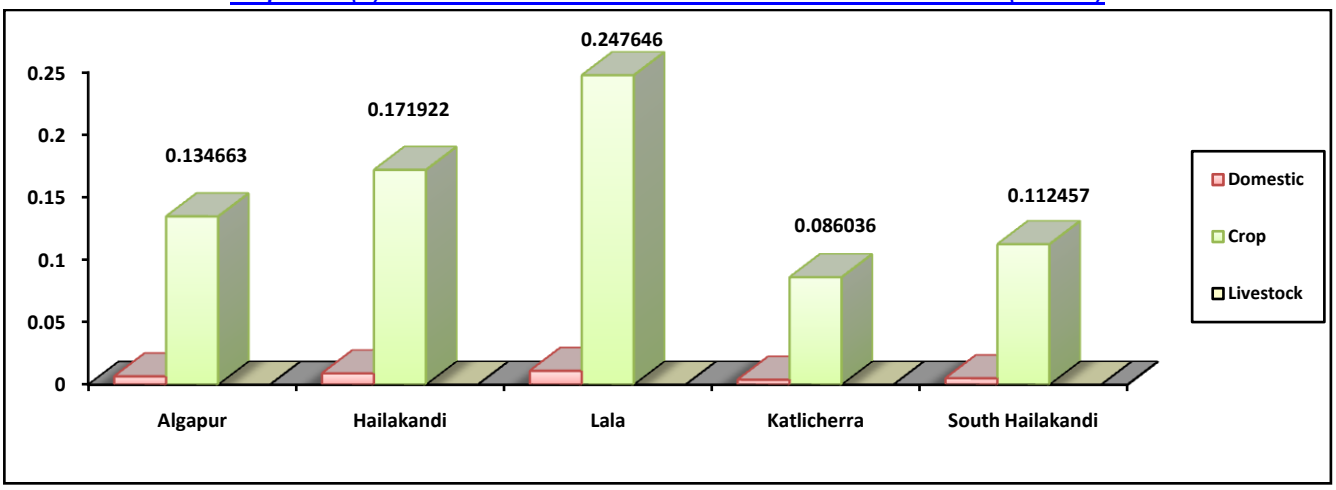
4.5 Water demand for Power generation:

There is no power plant which generates hydel electricity. No additional water is required for this purpose. There are no future power projects coming in the district.

4.6 Total Water Demand for various sectors

This section presents the total water demand of the district. The total Water Demand of the District has been calculated by summing up all major sectors consuming water. The current water demand has been depicted in Figure.4.6 (A) and projected total water demand of the district during 2020 is depicted in Figure. 4.6 (B). Further, in Table 4.6.1 has represented the total of current water demand of the district covering all sectors consuming water, while Table. 4.6.2 shows the projected water demand of the district during 2020 covering all sectors.

Graph: 4.6. (A) Water Demand of the Hailakandi district for various sectors (Present)



Graph: 4.6. (B) Water Demand of the Hailakandi district for various sectors (Projected 2020)

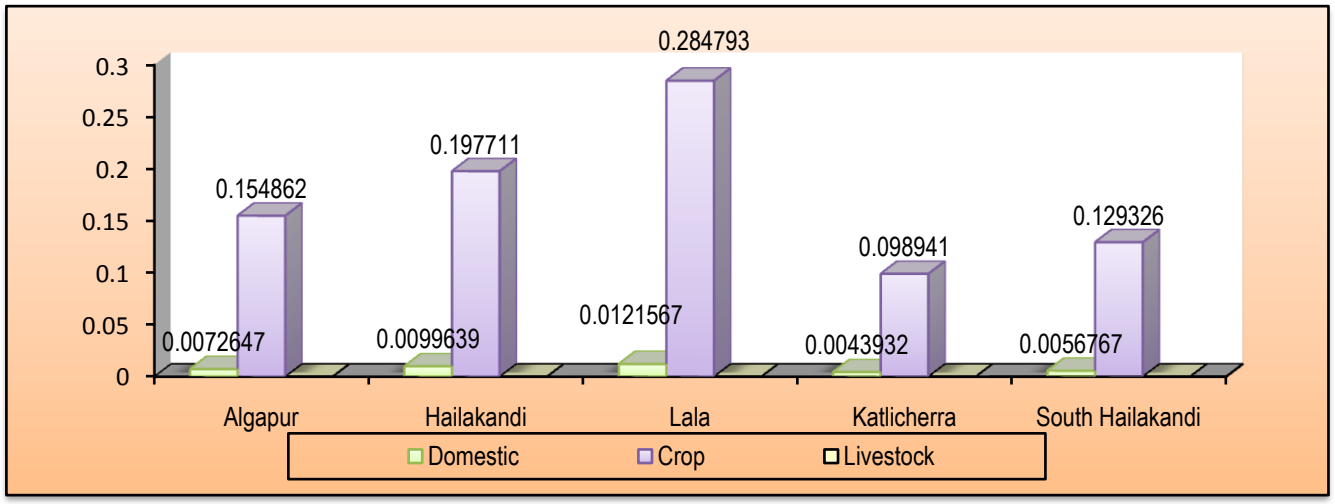


Table: 4.6.1 Present Water Demand of the District for Various Sectors

Block	Component					Total (BCM)
	Domestic	Crop	Livestock	Industry	Power Generation	
Algapur	0.0066231	0.134663	0.0000036896243	0.1337958	0.000	0.1680489896243
Hailakandi	0.0090841	0.171922	0.000003071715		0.000	0.2077683717150
Lala	0.0110832	0.247646	0.0000038813113		0.000	0.2854922813113
Katlicherra	0.0040052	0.086036	0.0000036996284		0.000	0.1168040996284
South Hailakandi	0.0051744	0.112457	0.0000040283772		0.000	0.1443946283772
TOTAL	**0.03597**	**0.752724**	**0.0000183706562**	**0.1337958**	**0.000**	**0.922508371**

Table: 4.6. 2: Projected Water Demand of the District for Various Sectors during 2020)

Block	Component					Total (BCM)
	Domestic	Crop	Livestock	Industry	Power Generation	
Algapur	0.0072647	0.154862	0.000008188725	0.1672448	0.000	0.195583848725
Hailakandi	0.0099639	0.197711	0.000006770677		0.000	0.241130630677
Lala	0.0121567	0.284793	0.000009129572		0.000	0.330407789572
Katlicherra	0.0043932	0.098941	0.000007796379		0.000	0.136790956379
South Hailakandi	0.0056767	0.129326	0.000008624335		0.000	0.168460284335
TOTAL	**0.0394552**	**0.865633**	**0.0000405096880**	**0.1672448**	**0.000**	**1.07237351**

The present water demand of the district has been assessed at **0.9225 BCM** annually. Lala Block being the block with maximum requirement of water (0.2854 BCM). Dambuk-Paglam and Hunli-Desali Block stands at 2nd and 3rd position with approximately 67.07 MCM and 23.39 MCM water requirement.

During 2020, the demand may be proportionate to the current water demand and total project water demand during the year 2020 has been assessed at **1.0723 BCM**. The projected water requirement of Lala Block during the year 2020 has been estimated as **0.3304 BCM**.

4.7 Water Budget

A water budget reflects the relationship between input and output of water through a region. Thus we have a direct comparison of supply of water and the natural demand for water.

The total water demand of the district during the year 2020 has been estimated as 1.072 BCM. The maximum projected demand of water in Lala Block during the year 2020 is appeared to be 0.3304 BCM, while the same is in case of Hailakandi Block would be0.2411306BCM, Algapur is 0.1955838 BCM, South Hailakandi of 0.1684602 BCM and 0.1367909BCM for Katlicherra Block.

The total projected water gap for the district during the year 2020 has been estimated at 0.4399 BCM as compared to the total present water gap of the district (0.309 BCM). The maximum projected water gap has been estimated at 0.20391 BCM for Lala Block and the minimum gap of 0.0103018 BCM is estimated for Katlicherra Block of the District. The details of the estimated Block-wise Water Budget of the district is given in Table.4.7.

Table: 4.7 Water Budget

Block	Existing Water Availability (BCM)		Total (BCM)	Water Demand (BCM)		Water Gap (BCM)	
	Stored Surface Water	Ground Water		Present	Projected 2020	Present	Projected 2020
Algapur	0.032232	0.030697		0.16804899	0.1955838	0.04155989	0.0690947
Hailakandi	0.037836	0.036034		0.20776837	0.2411306	0.08127927	0.1146415
Lala	0.107903	0.102765		0.28549228	0.3304077	0.15900318	0.2039186
Katlicherra	0.020505	0.019528		0.11680409	0.1367909	0.00968501	0.0103018
South Hailakandi	0.125461	0.119486		0.14439462	0.1684602	0.01790552	0.0419711
TOTAL	**0.323936**	**0.30851**	**0.6324455**	**0.922508371**	**1.07237351**	**0.30946149**	**0.4399277**

Chapter 5

Strategic Action Plan for Irrigation

The vision of the scheme PMKSY is to ensure access to some means of protective irrigation to all agricultural farms in the country, to increase water use efficiency by its 'per drop more crop' subcomponent, thus bringing much desired rural prosperity. The need of the hour is to have well managed watershed resources which not only enhances the ecological resource base of a rural economy but will also create sustainable livelihood opportunity.

At present, the schemes implemented by all the departments are broadlybased and are required to be specific and location/ problem based. A systematic integrated approach having full participation of the users in the planning process is the need of the hour and extension facilitation should be inter-disciplinary. On the basis of methodology described above, a strategic plan forFiveyears has been prepared starting from 2016-17 to 2019-21.

The schemes have been prepared by the proper consultation with the actual beneficiaries. The plan in brief is detailed below.

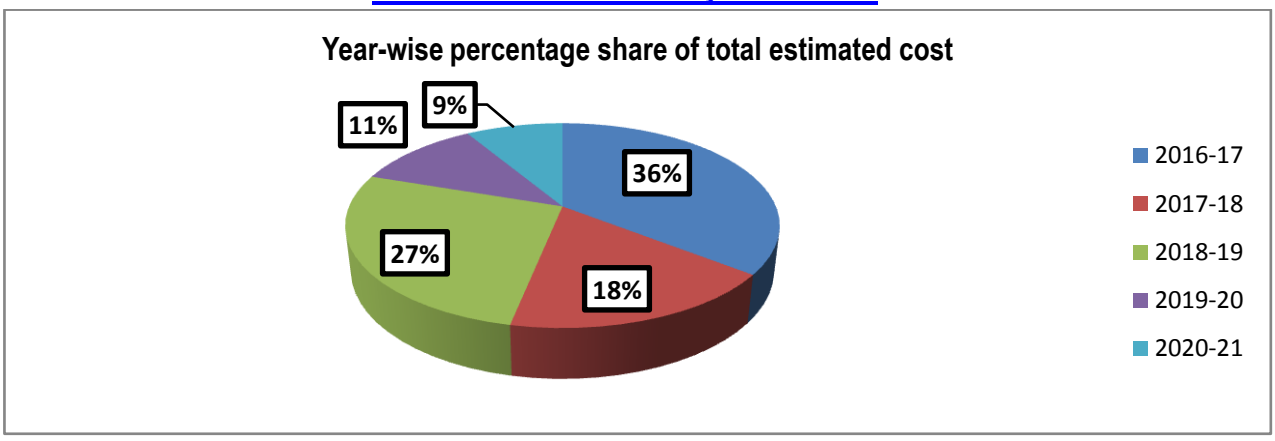
5.1 Year wise total plan of the district

The total outlay of the district Irrigation Plan for a period of 5 years is about **Rs. 66359.2 lakh** distributed among 05 year plan as given in the table 5.1 below. The first year plan i.e. 2016-17 has the maximum share of total outlay and constitutes about 36% followed by 2018-19 year plan with 27%, 2017-18 year plan with 18%, 2019-20 year plan with 11% and 2020-21 with 9% as well.

Table 5.1: Year-wise total Outlay of the District (Amount in Rs. Lakhs)

Year	Estimated Proposed Cost under PMKSY
2016-17	23562.852
2017-18	11748.855
2018-19	17889.831
2019-20	7418.401
2020-21	5739.261
Total	**Rs 66359.2**

Year-wise share of total outlay in the district

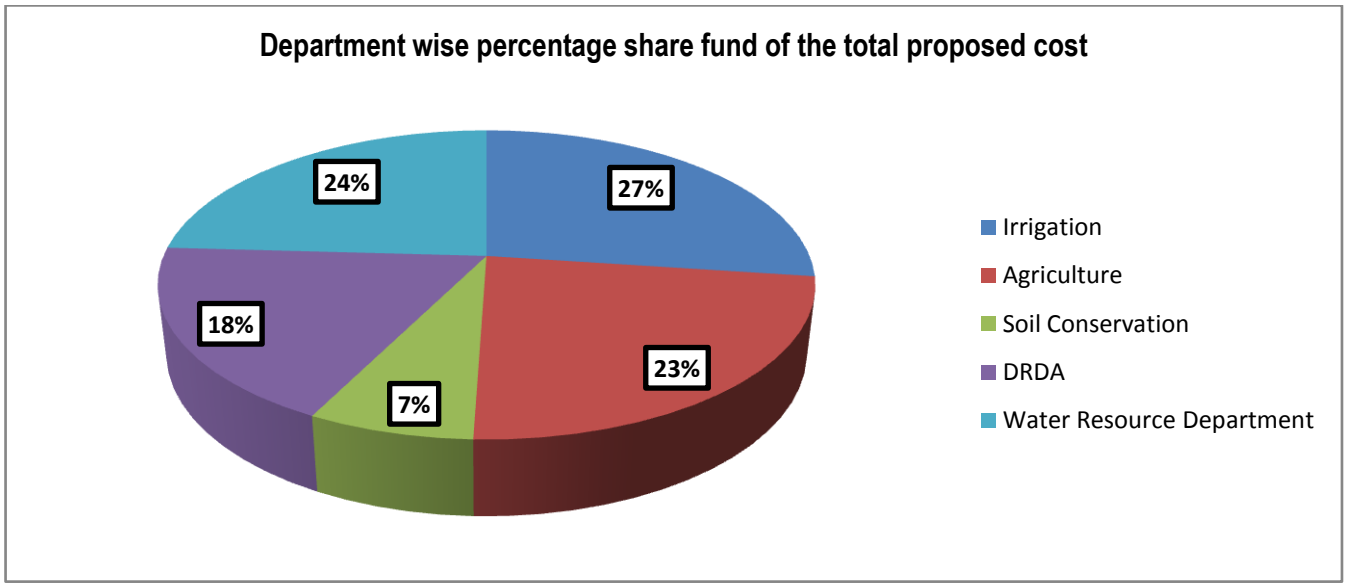


5.2. Share of Participating Departments on Total Outlay

A total of 05 departments have participated in the district Irrigation Plan preparation like Agriculture, Irrigation, Soil Conservation, DRDA and water resource department. The details of percentage year-wise share of the total estimated plan for each departmentsts are presented below in table 5.2 as follows:

Table 5.2: Percentage year-wise share of the total plan

Department	1st Year	2nd Year	3rd Year	4th Year	5th Year	Total 5 year plan
Irrigation	8617	4511	2245	1980	645	17998
Agriculture	3647.75	3247.95	3117.72	2922.59	2597.59	15533.6
Soil Conservation	1370.762	1138.595	683.801	699.501	680.361	4573.02
DRDA	4927.34	1851.31	1843.31	1816.31	1816.31	12254.58
Water Resource Department	5000	1000	10000	-	-	16000
Total	**23562.852**	**11748.855**	**17889.831**	**7418.401**	**5739.261**	**66359.2**



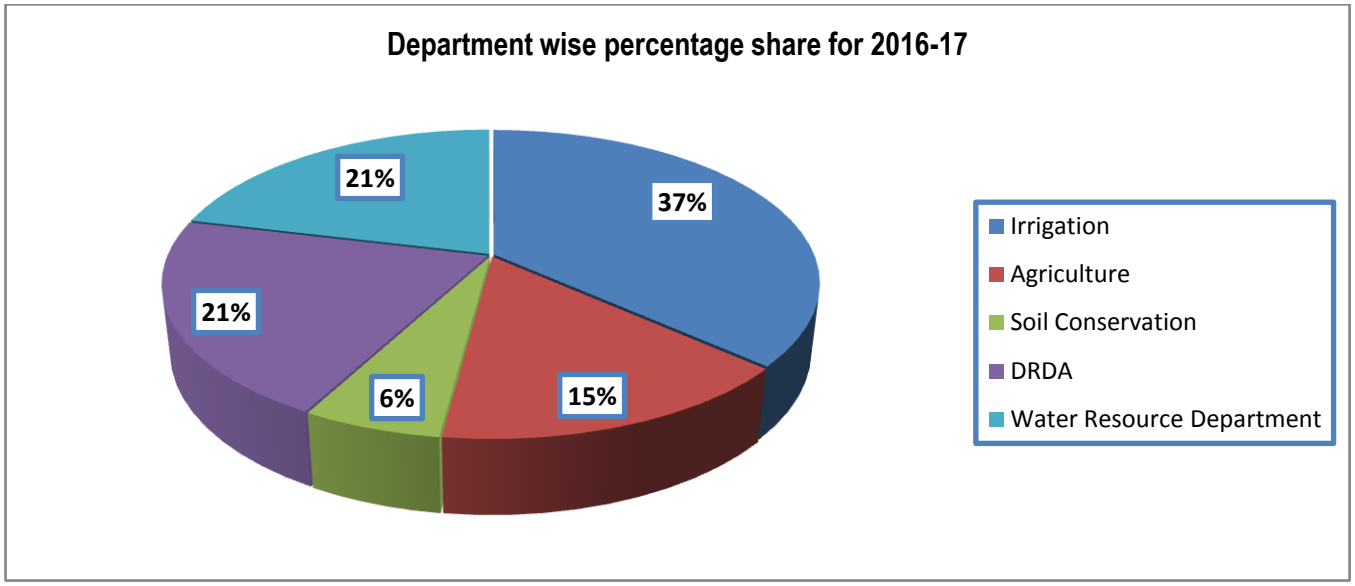
From the above figure, it can be concluded that maximum share of the total outlay is contributed by Irrigation Department with a share of 27% followed by Water Resource Department with a share of 24 %. While Agriculture Department share is of 23% out of the total share. Minimum share holds with an share of 7% by Soil Conservation Department of the total estimated cost for five years plan.

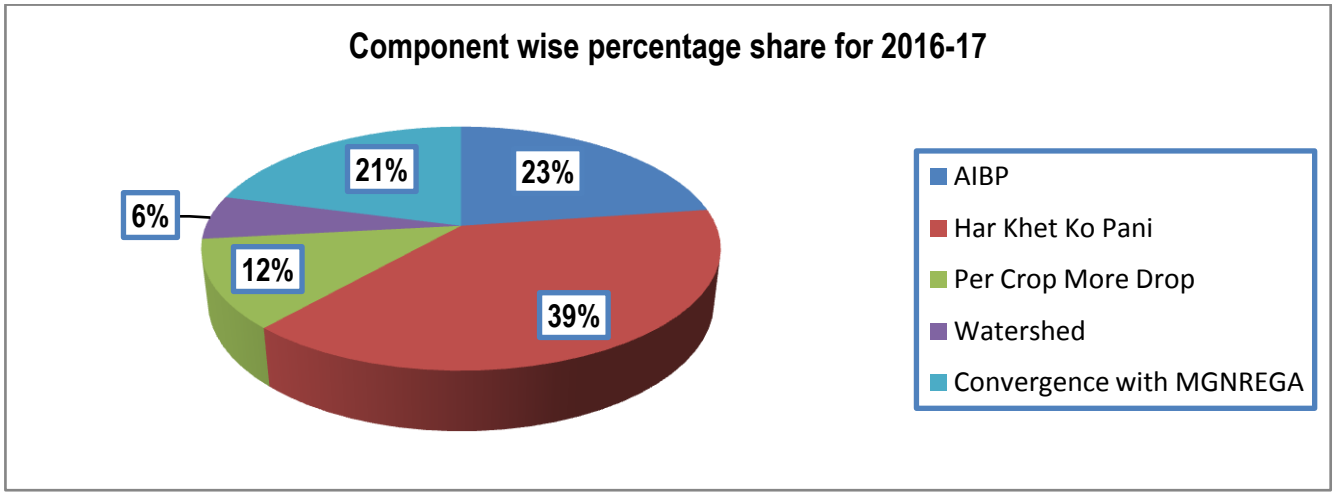
5.3 Year Wise Breakup Plan

5.3.1 2016-17 Plan

The total outlay of the district Irrigation Plan for the 1st year 2016-17 plan is **Rs. 23562.852 lakh** distributed among the Departments as well as component wise given in the table below. Percentage share of Department wise plan and component wise plan are presented in the figure below:-

Year	Department	AIBP	Har Khet Ko Pani	Per Crop More Drop	Watershed	Convergence with MGNREGA	Total (in Lakhs)
2016-17	Irrigation	5367	3250				8617
	Agriculture		889.55	2758.2			3647.75
	Soil Conservation				1370.762		1370.762
	DRDA					4927.34	4927.34
	Water Resource Department		5000				5000
Total		**5376**	**9139.55**	**2758.2**	**1370.762**	**4927.34**	**23562.852**

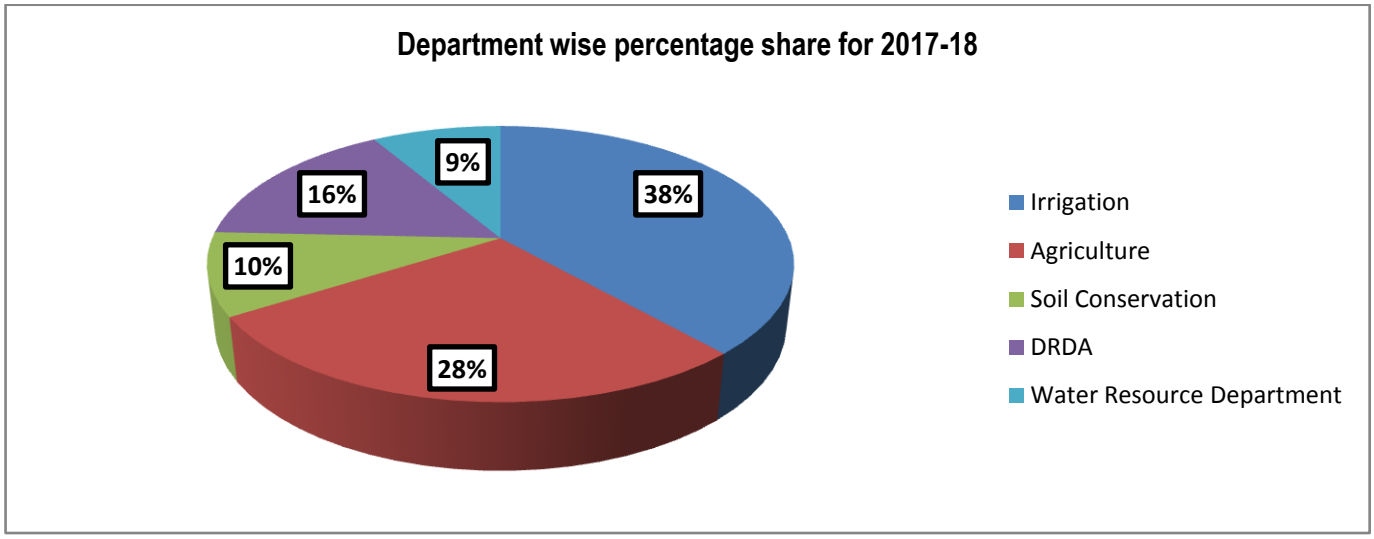


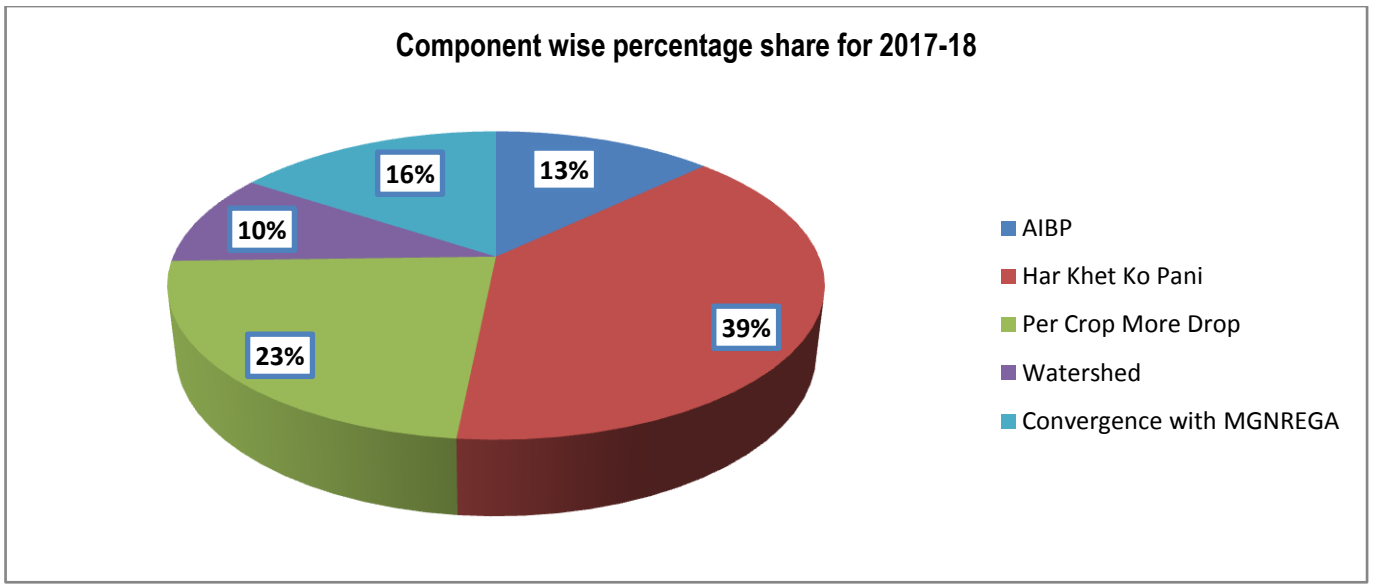


5.3.2 2017-18 Plan

The total outlay of the district Irrigation Plan for 2nd year plan i.e. 2017-18 is about **Rs. 11748.855 lakh** distributed among the Departments as well as component wise given in the table below. Percentage share for Department wise plan and component wise plan are presented in the figure below:-

Year	Department	AIBP	Har Khet Ko Pani	Per Crop More Drop	Watershed	Convergence with MGNREGA	Total
2017-18	Irrigation	1521	2990	-	-	-	4511
	Agriculture	-	550.25	2697.7	-	-	3247.95
	Soil Conservation	-	-	-	1138.595	-	1138.595
	DRDA	-	-	-		1851.31	1851.31
	Water Resource Department	-	1000	-	-	-	1000
Total		**1521**	**4540.25**	**2697.7**	**1138.595**	**1851.31**	**11748.855**

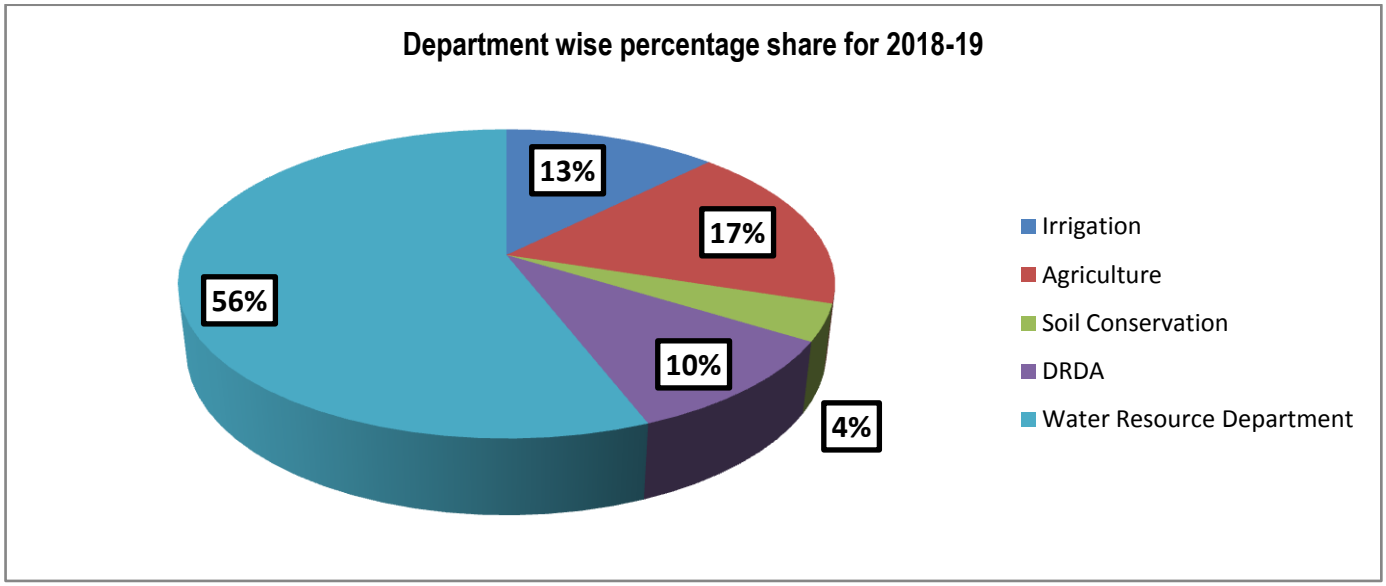


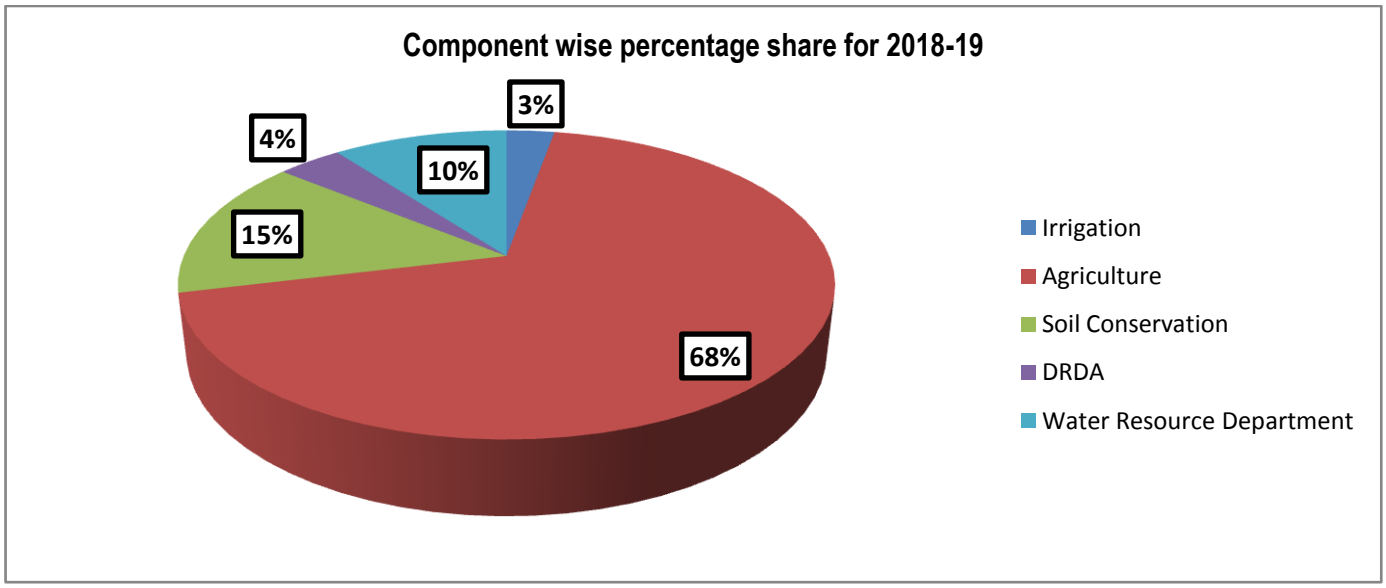


5.3.3 2018-19 Plan

The total outlay of the district Irrigation Plan for 3rd year plan i.e. 2018-19 is about **Rs. 17889.831 lakh** distributed among the Departments as well as component wise given in the table below. Percentage share for Department wise plan and component wise plan are presented in the figure below:-

Year	Department	AIBP	Har Khet Ko Pani	Per Crop More Drop	Watershed	Convergence with MGNREGA	Total
2018 - 19	Irrigation	505	1740				2245
	Agriculture		494.22	2623.5			3117.72
	Soil Conservation				683.801		683.801
	DRDA					1843.31	1843.31
	Water Resource Department		10000				10000
Total		**505**	**12234.22**	**2623.5**	**683.801**	**1843.31**	**17889.831**

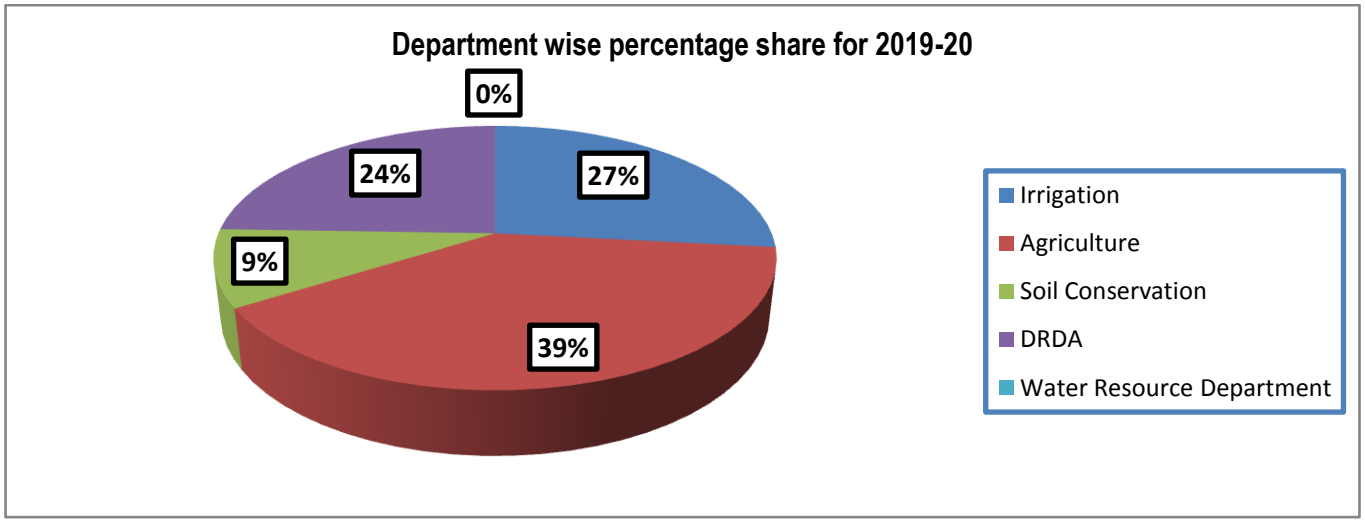


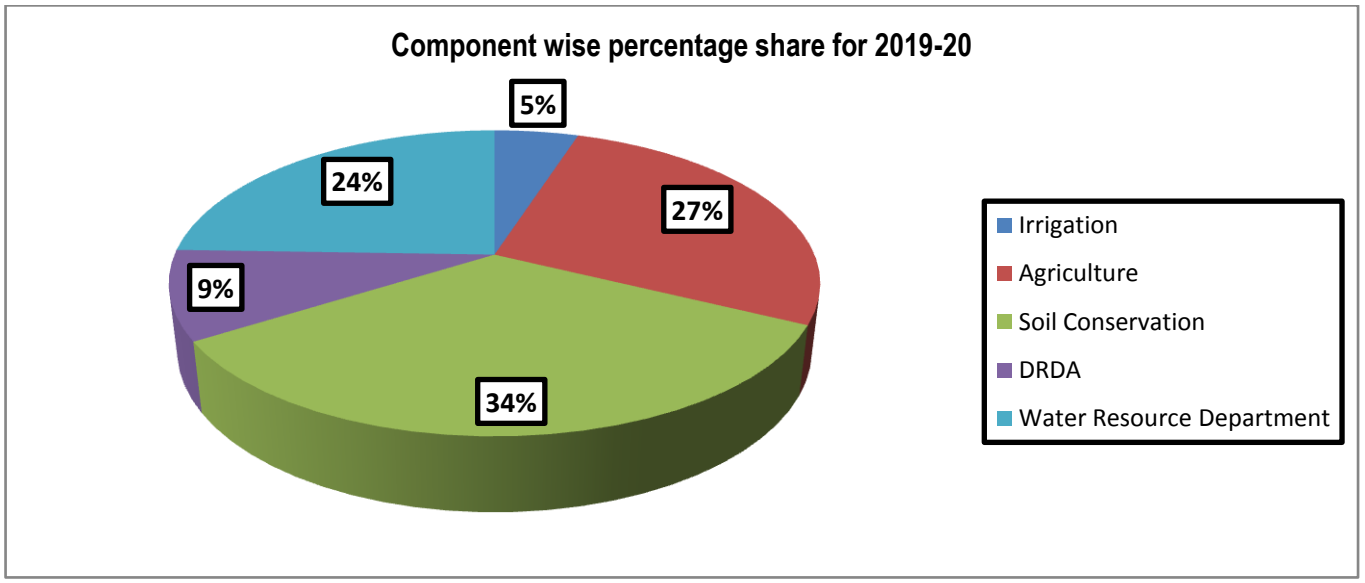


5.3.4 2019-20 Plan

The total outlay of the district Irrigation Plan for 4th year plan i.e. 2019-20 is about **Rs. 7418.401 lakh** distributed among the Departments as well as component wise given in the table below. Percentage share for Department wise plan and component wise plan are presented in the figure below:-

Year	Department	AIBP	Har Khet Ko Pani	Per Crop More Drop	Watershed	Convergence with MGNREGA	Total (in lakhs)
2019-20	Irrigation	370	1610	-	-	-	1980
	Agriculture	-	411.19	2511.4	-	-	2922.59
	Soil Conservation	-	-	-	699.501	-	699.501
	DRDA	-	-	-	-	1816.31	1816.31
	Water Resource Department	-	-	-	-	-	-
Total		**370**	**2021.19**	**2511.4**	**699.501**	**1816.31**	**7418.401**

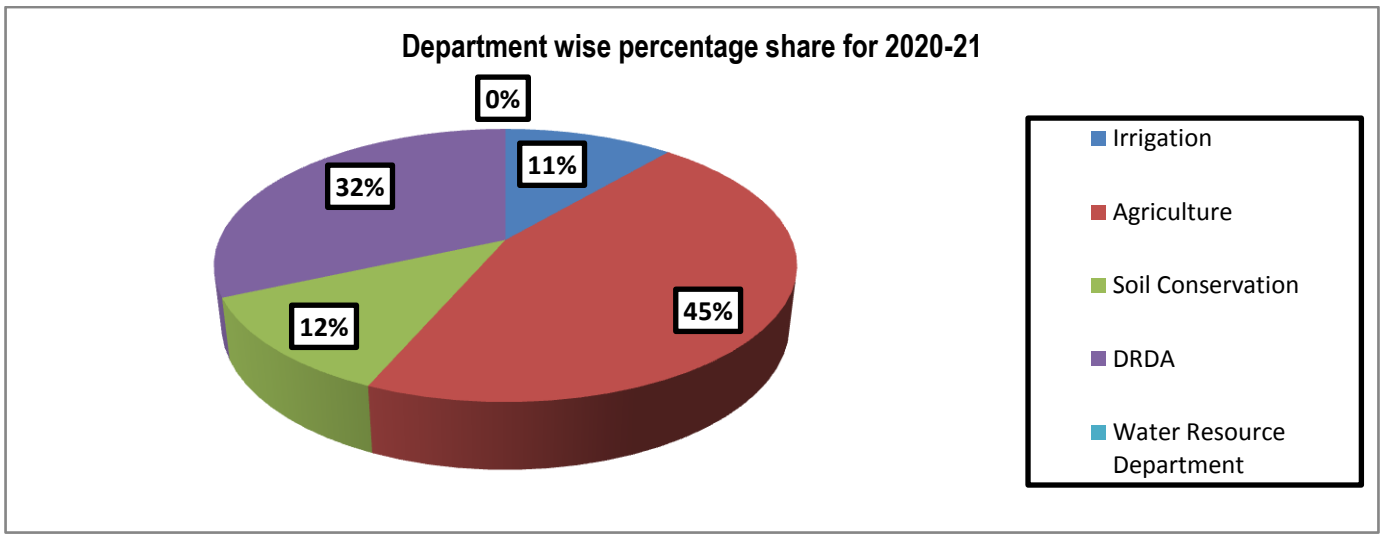


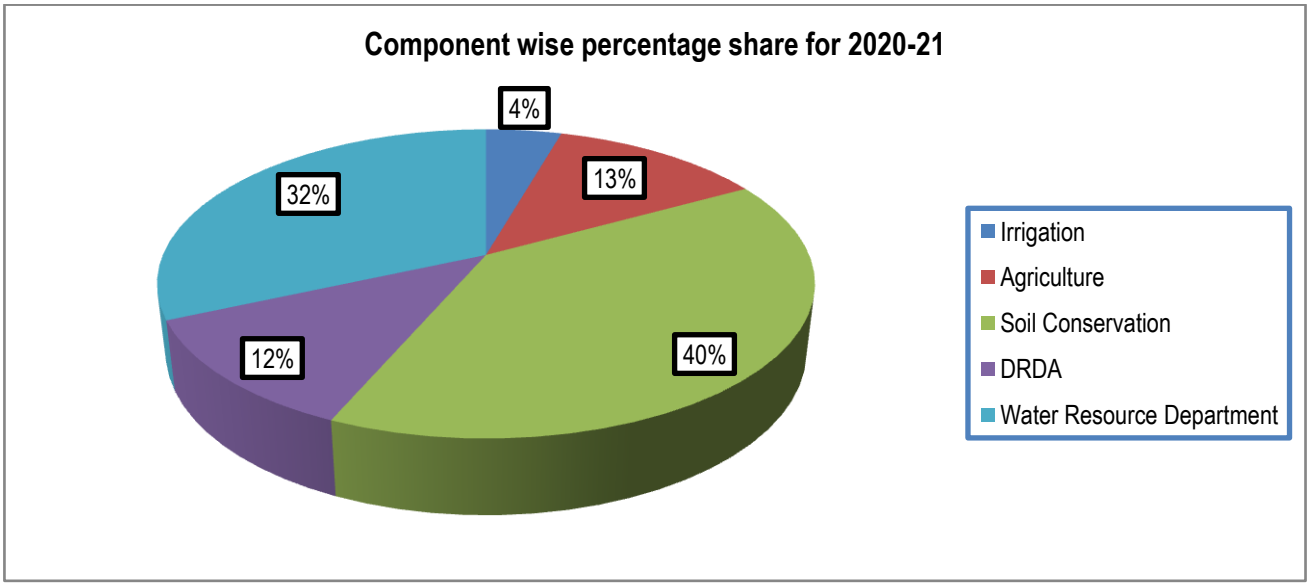


5.3.5 2020-21 Plan

The total outlay of the district Irrigation Plan for 5th year plan i.e. 2020-21 is about **Rs 5739.261 lakh** distributed among the Departments as well as component wise given in the table below. Percentage share for Department wise plan and component wise plan are presented in the figure below:-

Year	Department	AIBP	Har Khet Ko Pani	Per Crop More Drop	Watershed	Convergence with MGNREGA	Total
2020-21	Irrigation	255	390	-	-	-	645
	Agriculture	-	329.19	2268.4	-	-	2597.59
	Soil Conservation	-	-	-	680.361	-	680.361
	DRDA	-	-	-	-	1816.31	1816.31
	Water Resource Department	-	-	-	-	-	0
Total		**255**	**719.19**	**2268.4**	**680.361**	**1816.31**	**5739.261**





5.4 Suggestions

For successful implementation of PMKSY plan it is suggested that:

- All the stakeholders should convene meeting of Panchayat Samities and then finalize the village plan and prepare DPR.
- There should not be any duplicity of project.
- The Department should supplement each other so that the maximum irrigation efficiency is achieved.
- Agriculture and Horticulture Department should take micro irrigation projects in the command of minor irrigation projects which are either completed or likely to be completed in near future.
- All the irrigation projects should have a component of water conveyance so that the each drop of water is judiciously utilized.
- Where ever feasible, solar pumpsets should be installed.
- All the structures planned should be geo tagged and marked on map, so that social monitoring of the projects can be conducted. This will also avoid the duplicity.
- Priority should be given to projects to minimize the gap in potential created and potential utilized.
- Wherever sites with low head LIS have already been exhausted, higher per hectare norms should be allowed.
- Execution of the scheme should be expeditiously completed.
- There should be smooth fund flow for timely completion of the project and to avoid cost escalation.

ANNEXURES

Strategic Action Plan for Irrigation of Hailakandi District under PMKSY

2016-17 DistrictIrrigation plan

Irrigation Department

Block	GP/Village	Concerned Ministry / Dept.	Component	Activity	Total Number / Capacity (Cum)	Command Area/ Irrigation Potential (Ha)	Period of Implementation (5/7 Years)	Estimated Cost (Rs.in Lac.)
1	2	3	4	5	6	7	8	9
Hailakandi	Boalipar G.P)	MOWR	AIBP	**Surface Minor Irrigation (ELIS)**	1 Nos /15 H.P	25	1 yrs	60.00
	Bhatirkupa G.P)			Lift & Solar Pump	1 Nos / 15 H.P	20	1 yrs	60.00
	Gangpar Dhumkar G.P)			DO	1 Nos /15 H.P	20	1 yrs	70.00
	Rangauti G.P)			DO	1 Nos /15 H.P	20	1 yrs	65.00
	Nitainagar G.P)			DO	1 Nos /15 H.P	22	1 yrs	60.00
	Kanchanpur G.P)			DO	1 Nos./15 H.P	22	1 yrs	70.00
	Matijuri Paikan G.P)			DO	1 Nos /15 H.P	20	1 yrs	65.00
	Ujankupa G.P)			DO	1	22	1 yrs	65.00
	Narainpur Tupkhana G.P)			DO	1	24	1 yrs	70.00
	Bahadurpur G.P)			DO	1	20	1 yrs	70.00
Algapur	Algapur Pt.I			**Surface Minor Irrigation (ELIS)**	1	20	1 yrs	70.00
	Algapur G.P)			Lift & Solar Pump	1 Nos /15 H.P	20	1 yrs	65.00
	Kalinagar S.C Area G.P)			DO	One Nos /15 H.P	20	1 yrs	65.00
	Uttarkanchanpur G.P			DO	1 Nos.	25	1 yrs	65.00
	Bhakrihowar G.P			DO	1 Nos.	20	1 yrs	70.00
	Chiporsangan G.P			DO	1 Nos.	20	1 yrs	65.00
	Chandipur G.P			DO	1 Nos.	22	1 yrs	70.00
	Mohanpur Burniebres G.P			DO	1 Nos.	21	1 yrs	68.00
	SayedBond G.P			DO	1 Nos.	20	1 yrs	65.00
Lala	FIS in Bangalpur Koya GP			FIS	1	100	1 yrs	250.00
	KukithalNala at Chaunuambers area			FIS	1	340	1 yrs	340.00
Katlicherra	Sahabad Area Vill. Sahabad pt.-II	MOWR	AIBP	LIS	1	150	1 yrs	270.00
	Bualipar Area Vill:-Rongpur Pt.-II (Point no- 1&2)			LIS	1	50	1 yrs	150.00
	Bogoban-Chera Vill.Sunacherra Rupacherra Basti			FIS	1	100	1 yrs	350.00
	Fitra Tilla Nala, Appin G.P.			FIS	1	100	1 yrs	350.00
South-Hailakandi	Baldabaldi Nandagram G.P)			Lift with Solar Pump	1 Nos	22	1 yrs	65.00
	Dholai Bagan G.P)			DO	1 Nos	20	1 yrs	65.00
	Killarbak Jhalnacherra G.P)			DO	1 Nos	25	1 yrs	65.00

	Manipur Niskar G.P)			DO	1 Nos	20	1 yrs	65.00
	Gharmura Baghcherra G.P)			DO	1 Nos	21	1 yrs	60.00
	Baruncherra Kukicherra G.P)			DO	1 Nos	25	1 yrs	65.00
	Jamira G.P)			DO	1 Nos	20	1 yrs	65.00
	Dhariarghat Karicherra G.P)			DO	1 Nos	22	1 yrs	65.00
	Palaicherra G.P)			DO	1 Nos	21	1 yrs	66.00
Algapur	Algapur G.P	MOWR	AIBP	Lift & Solar Pump	1 Nos /15 H.P	25	1 yrs	70.00
	Kalinagar S.C Area G.P			Lift & Solar Pump	1 No / 15 H.P	22	1 yrs	70.00
Lala	Krishnapur area Mohamedpur Joy Krishnapur GP (Solar)			**DO**	1	20	1 yrs	65.00
	Mohamedpur Pt-II (Solar)			Lift & Solar Pump	1	22	1 yrs	60.00
	Sarbanandopur&Nizvernapur GP (Solar)			DO	1	25	1 yrs	75.00
	Jalalpur Tantoo Donipur GP (Solar)			DO	1	19	1 yrs	60.00
	Purbo Kettar Band Rajesopur Chandropur GP(Solar)			DO	1	20	1 yrs	65.00
	Mukta Cherra Rajesopur GP(Solar)			DO	1	20	1 yrs	65.00
	Gudam Ghat Monasara GP(Sol.			DO	1	22	1 yrs	65.00
	Saidpur Tantu GP(Solar)			DO	1	28	1 yrs	80.00
	Tero number Sarbanandapur GP(Solar)			DO	1	25	1 yrs	75.00
	Vichingcha-1 Bowerghat GP(Solar)			DO	1	23	1 yrs	65.00
	Bowabeel area At Dudpur Kuchila GP(Solar)			DO	1	22	1 yrs	65.00
	Amla, Purbo Ketterband Rajeswarpur GP(Solar)			DO	1	20	1 yrs	65.00
Kattlicherra	D.T.W. (Solar) Rongpur Pt.-VII Sahabad G.P.			Lift with Solar Pump	1	25	1 yrs	62.00
	D.T.W. Chorair Gram Sahabad G.P. (Solar)			DO	1	22	1 yrs	60.00
	D.T.W. Tuker Gram Vill:- Rongpur Pt.-I (Solar)			DO	1	25	1 yrs	73.00
	D.T.W. Alekjenderpur Rangabak G.P.(solar)			DO	1	22	1 yrs	61.00
	D.T.W. Bonogram Area Vill:- Rongpur Pt.-III (Solar) Rangabak G.P.			DO	1	20	1 yrs	66.00

	Rupacherra Basti Dholai G.P.(Solar)			DO	1	20	1 yrs	65.00
	D.T.W. BualparVill:-Rongpur pt.-II Sahabad G.P.(Solar)			DO	1	21	1 yrs	64.00
	D.T.W. Rongpur Pt.-IVSahabad G.P.(Solar)			DO	1	26	1 yrs	78.00
	D.T.W. Appin Pt.-II Rongpur G.P. (Solar)			DO	1	23	1 yrs	73.00
	Vill:-Rongpur Pt.-VIII Sahabad GP Mini Solar Pump Scheme(3HP)			DO	1	23	1 yrs	69.00
	Rongpur Pt.-IV Sahabad GP(2 Nos) Mini Solar Pump Scheme(3HP)			DO	1	22	1 yrs	67.00
	Sahabad Pt-I, Vill- & P.O. Sahabad Pt-I, G.P.- Sahabad (Solar)			DO	1	19	1 yrs	65.00
	Vill- Aleaxanderpur, P.O.- Katlicherra, GP- Katlicherra (Solar)			DO	1	21	1 yrs	70.00
Total Estimated Cost for 2016-17								**5367.00**

Sl No	Name of the Dev. Block/Sub-District	Concerned Ministry/Development	Component	Activity	Name of Irrigation Scheme	Nos. Of Irrigation Scheme	Command Area/Irrigation Potential (Ha)	Period of Implemetation	Estimated Cost (Rs. In Lakhs)
1	2	3	4	5	6	7	8	9	10
1	Kattlicherra	MOWR	Her Kheth Ko Pani Do	Ground Water Development	D.T.W. Scheme in Appin Pt-I (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
2					D.T.W. Scheme in Appin Pt-II (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
3					D.T.W. Scheme in Rongpur Pt-I (Solar)	1 Nos/ 15 HP	22	1 yrs	65.00
4					D.T.W. Scheme in Rongpur Pt-II (Solar)	1 Nos/ 15 HP	27	1 yrs	65.00
5					D.T.W. Scheme in Sahabad Pt-I (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
6					D.T.W. Scheme in Sahabad Pt-II (Solar)	1 Nos/ 15 HP	19	1 yrs	65.00
7					D.T.W. Scheme in Rongpur Pt-III (Solar)	1 Nos/ 15 HP	18	1 yrs	65.00

8					D.T.W. Scheme in Rangabak (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
9					D.T.W. Scheme in Katlicherra (Solar)	1 Nos/ 15 HP	21	1 yrs	65.00
10					D.T.W. Scheme in Bhogobanpur (Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
11					D.T.W. Scheme in Bukabil (Solar)	1 Nos/ 15 HP	24	1 yrs	65.00
12					D.T.W. Scheme in Dinonathpur Pt-I (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
13					D.T.W. Scheme in Lumar Dholai (Solar)	1 Nos/ 15 HP	22	1 yrs	65.00
14					D.T.W. Scheme in Annanda Bazar (Solar)	1 Nos/ 15 HP	23	1 yrs	65.00
15	Lala	MOWR	Her Kheth Ko Pani Do	Ground Water Development	D.T.W. Scheme in Niz-Vernerpur Pt-II (Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
16					D.T.W. Scheme in Brishnopur (Solar)	1 Nos/ 15 HP	30	1 yrs	65.00
17					D.T.W. Scheme in Tantoo (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
18					D.T.W. Scheme in Niamatpur (Solar)	1 Nos/ 15 HP	22	1 yrs	65.00
19					D.T.W. Scheme in Joy-Krishnapur (Solar)	1 Nos/ 15 HP	19	1 yrs	65.00
20					D.T.W. Scheme in Bilaipur (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
21					D.T.W. Scheme in Kacharithal (Solar)	1 Nos/ 15 HP	24	1 yrs	65.00
22					D.T.W. Scheme in Koiya (Solar)	1 Nos/ 15 HP	27	1 yrs	65.00
23					Dhalcherra Water Users Association Dhalcherra F.V. Upper part D.T.W.S. (Solar) Irrigation	1 Nos/ 15 HP	24	1 yrs	65.00
24					D.T.W. Scheme in Barbond Pt-II (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
25					D.T.W. Scheme in Aynarkhal G.P.(Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
26					D.T.W. Scheme in Moncherra G.P.(Solar)	1 Nos/ 15 HP	22	1 yrs	65.00
27					D.T.W. Scheme in Bawarghat G.P.(Solar)	1 Nos/ 15 HP	19	1 yrs	65.00

28					D.T.W. Scheme in Nimaichandpur G.P.(Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
29					D.T.W. Scheme in Lalamuk G.P.(Solar)	1 Nos/ 15 HP	15	1 yrs	65.00
30	South-Hailakandi	MOWR	Her Kheth Ko Pani Do	Ground Water Development	D.T.W. Scheme in Manipur Niskar (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
31					D.T.W. Scheme in Dhariarghat (Solar)	1 Nos/ 15 HP	19	1 yrs	65.00
32					D.T.W. Scheme in Karicherra (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
33					D.T.W. Scheme in Nagacherra (Solar)	1 Nos/ 15 HP	26	1 yrs	65.00
34					D.T.W. Scheme in Sampur (Solar)	1 Nos/ 15 HP	22	1 yrs	65.00
35					D.T.W. Scheme in Paloicherra Pt-I (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
36					D.T.W. Scheme in Paloicherra Pt-II (Solar)	1 Nos/ 15 HP	30	1 yrs	65.00
37					D.T.W. Scheme in Baldabaldi Nandagram G.P. (Solar)	1 Nos/ 15 HP	28	1 yrs	65.00
38					D.T.W. Scheme in Jamira G.P.(Solar)	1 Nos/ 15 HP	24	1 yrs	65.00
39					D.T.W. Scheme in Gharmura Bagacherra G.P. (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
40	South-Hailakandi	MOWR	Her Kheth Ko Pani Do	Ground Water Development	D.T.W. Scheme in Killarbak Jalnacherra G.P. (Solar)	1 Nos/ 15 HP	21	1 yrs	65.00
41					D.T.W. Scheme in Baruncherra Kukicherra G.P. (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
42					F.I.S. Scheme in Jalnacherra area	1	100	1 yrs	180.00
43					D.T.W. Scheme in Dhariar Grant (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
44	Hailakandi	MOWR	Her Kheth Ko Pani Do	Ground Water Development	D.T.W. Scheme in Vichingcha Pt-II Rangtuli G.P. (Solar) 5Pts	1 No/ 15 HP	30	1 Yrs	70.00
45					D.T.W. Scheme in Dudhpur Barbond G.P. (Solar) 5Pts	1 No/ 15 HP	25	1 Yrs	65.00
46					D.T.W. Scheme in Bawarghat Pt-I Bawarghat G.P. (Solar) 5Pts	1 No/ 15 HP	22	1 Yrs	70.00
47					D.T.W. Scheme in Tupkhana G.P Narainpur Tupkhana. (Solar) 5Pts	1 No/ 15 HP	20	1 Yrs	70.00
48					D.T.W. Scheme in Nichintapur Pt-I Nichintapur G.P.(Solar) 5Pts	1 No/ 15 HP	25	1 Yrs	65.00

Total Estimated Cost for 2016-17	3250.00

Agriculture Department

BLOCK	GP / VILLAGE	Concerned Ministry / Dept.	Component	Activity	Qty / No.s	Command Area	Estimated Cost
Hailakandi	Bashdahar Barhailakandi GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Narayanpur Tupkana GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	3	75	22.5
	Boalipar GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Kanchanpur GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Ujankupa GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Serispur GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Lala:Mahammadpur Joy Krishnapur GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	1	25	7.5
Lala	Lalacherra Vernerpur GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Niz Vernerpur Sarbanandapur GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Sudarshanpur Kalacherra GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Chandrapur GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Purbo Kittarbond Rajyeswarpur GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	4	100	30
	Koyah Ramchandi GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Aynakhal TE GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Monacherra GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	2	50	15
	Bowerghat GP	MOA & FW DAC & FW	Har Khet Ko Pani	DTW (Electrical)	1	25	7.5
Algapur	Panchgram GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Kalinagar GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Uttar Kanchanpur GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Chiparsangan GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Chandipur GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Bashbari GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Mohanpur Burniebraes GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Mohanpur GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	4	40	16
	Uttar Narayanpur GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Paschim Mohanpur GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Saidbond GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
Hailakandi	Bashdahar Barhailakandi GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Sudarshanpur Bandukmara GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Bahadurpur GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	3	30	12
	Matijuri Paikan GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Narayanpur Tupkana GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Boalipar GP	MOA & FW DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	3	30	12

	Bhatirkupa GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	3	30	12
	Ujankupa GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Gangpar Dumkar Laxmirbond GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	3	30	12
	Ratanpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	4	40	16
	Rangauti GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	6	60	24
Lala	Rajyeswarpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Jyotsnabad Umednagar GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Lalamukh GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Sudarshanpur Kalacherra GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Nichintapur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Monacherra GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Borbond GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Bowerghat GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Harishnagar GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	6	60	24
	Sahabad GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	5	50	20
	Sonacherra Rupacherra GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Dinanathpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Appin Rangpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	3	30	12
	Dhalai Malai GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Katlicherra GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	1	10	4
South Hailakandi	Palaycherra Sultanicherra GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Panchgram GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	6000 m		4.8
	Kalinagar GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	8000 m		6.4
	Uttar Kanchanpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	4000m		3.2
	Chiparsangan GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	3000 m		2.4
	Chandipur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	5000 m		4
	Bashbari GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	7000 m		5.6
	Mohanpur Burniebraes GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	4000 m		3.2
	Mohanpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	17 000 m		13.6
	Uttar Narayanpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	4000 m		3.2
	Paschim Mohanpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	1000 m		0.8
	Saidbond GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	4000 m		3.2
	Bashdahar Barhailakandi GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	8000 m		6.4
	Sudarshanpur Bandukmara GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	1000 m		0.8
	Bahadurpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	14000 m		11.2
	Matijuri Paikan GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	9000 m		7.2
	Narayanpur Tupkana GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	3000 m		2.4
	Boalipar GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	13000 M		10.4

	Bhatirkupa GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	12000 m		9.6
	Ujankupa GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	3000 m		2.4
	Gangpar Dumkar Laxmirbond GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	11000 m		8.8
	Ratanpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	17000 m		13.6
	Rangauti GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	28000 m		22.4
Lala	Rajyeswarpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	9000 m		7.2
	Jyotsnabad Umednagar GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	9000 m		7.2
	Lalamukh GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	6000 m		4.8
	Sudarshanpur Kalacherra GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	3000 m		2.4
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	10000 m		8
	Nichintapur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	3000 m		2.4
	Monacherra GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	4000 m		3.2
	Borbond GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	4000 m		3.2
Algapur:	Mohanpur Burnebrease GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Mohanpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Chandipur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Bashbari GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
Hailakandi:	Sudarshanpur Bandukmara GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Bhatirkupa GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	2		8
	Ujankupa GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Nitainagar GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	2		8
Lala:	Lalacherra Vernerpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Rajyeswarpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Lalamukh GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Sudarshanpur Kalacherra GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	3		12
	Aynakhal TE GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Borbond GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Bowerghat GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Harishnagar GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Sonacherra Rupacherra GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Dinanathpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Appin Rangpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
	Katlicherr GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Spillway	1		4
Lala	Bowerghat GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	3000 m		2.4
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	1000 m		0.8
	Harishnagar GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	28000 m		22.4
	Sahabad GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	22000 m		17.6
	Sonacherra Rupacherra GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	5000 m		4

	Dinanathpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	5000 m		4
	Appin Rangpur GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	11000 m		8.8
	Dhalai Malai GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	9000 m		7.2
	Katlicherra GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	3000 m		2.4
South Hailakandi:	Palaycherra Sultanicherra GP	MOA & FW	DAC & FW	Har Khet Ko Pani	Field Canal	9000 m		7.2
Algapur	Algapur	MOA & FW	DAC & FW	Har Khet Ko Pani	Electrical LLP	30	60	7.95
Hailkakandi	Hailkakandi	MOA & FW	DAC & FW	Har Khet Ko Pani	Electrical LLP	29	58	7.685
Lala	Lala	MOA & FW	DAC & FW	Har Khet Ko Pani	Electrical LLP	39	78	10.335
Katlicherra	Katlicherra	MOA & FW	DAC & FW	Har Khet Ko Pani	Electrical LLP	20	40	5.3
South Hailakandi	South Hailakandi	MOA & FW	DAC & FW	Har Khet Ko Pani	Electrical LLP	32	64	8.48
Total								**889.55**

Block	GP / Villages	Ministry / Dept		Component	Activity	Nos. / Quantity	Command Area	Estd Cost
Hailakandi:	Sudarshanpur Bandukmara GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Drip Irrigation**	1	2	4
	Boalipar GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Drip Irrigation**	2	4	8
	Bhatirkupa GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Drip Irrigation**	1	2	4
	Kanchanpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Drip Irrigation**	4	8	16
	Sirispur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Drip Irrigation**	2	4	8
	Gangpar Dumkar Lakhirbond GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Drip Irrigation**	3	6	12
	Ratanpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Drip Irrigation**	4	8	16
	Rangauti GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Drip Irrigation**	6	12	24
	Kanchanpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Sprinkler Irrigation**	4	8	8
Algapur:	Panchgram GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	3	3	18
	Kalinagar GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	4	4	24
	Uttar Kanchanpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	10	10	60
	Bakrihowar GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	10	10	60
	Chiporsangan GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	10	10	60
	Chandipur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	11	11	66
	Bashbari GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	10	10	60
	Algapur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	6	6	36
	Mohanpur Burniebraes GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	10	10	60
	Mohanpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	9	9	54
	Uttar Narayanpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	6	6	36
	Paschim Mohanpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	4	4	24
	Saidbond GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	5	5	30
Hailakandi	Basdohar Borhailakandi GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	8	8	48
	Sudarsanpur Bandukmara GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	5	5	30
	Bahadurpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	6	6	36

	Narayanpur Tupkana GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	12	12	72
	Boalipar GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	21	21	126
	Bhatirkupa GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	10	10	60
	Kanchanpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	10	10	60
	Ujankupa GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	6	6	36
	Serispur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	12	12	72
	Gangpar Dumkar Laxmirbond GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	27	27	162
	Nitainagar GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	3	3	18
	Ratanpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	11	11	66
	Rangauti GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	11	11	66
Lala	Mohammadpur Joy Krishnapur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	4	4	24
	Lalacherra Vernerpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	4	4	24
	Niz Vernerpur Sarbanandapur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	3	3	18
	Rajyeswarpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	3	3	18
	Jyotsnabad Umednagar GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	2	2	12
	Lalamukh GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	1	1	6
	Sudarsanpur Kalacherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	3	3	18
	Nimaichanpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	3	3	18
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	7	7	42
	Chandrapur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	4	4	24
	Purbo Kittarbond Rajyeswarpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	3	3	18
	Koyah Ramchandi GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	2	2	12
	Aynakhal TE GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	4	4	24
	Nichintapur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	4	4	24
	Monacherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	2	2	12
	Borbond GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	4	4	24
	Bowerghat GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	4	4	24
	Dhalcherra Bilaipur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	4	4	24
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	2	2	12
	Harishnagar GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	1	1	6
	Sahabad GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	5	5	30
	Katlicherra	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	3	3	18
	Dinanathpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	4	4	24
	Appin Rangpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	2	2	12
	Dholai Molai GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	4	4	24
	Katlicherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	2	2	12
South Hailakandi	Gharmura Bagcherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	5	5	30
	KIllarbak Jhalnacherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	5	5	30
	Jamira GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	6	6	36
	Baldabaldi Nandagram GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	7	7	42

	Polaycherra Sultanicherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	2	2	12
	Dariarghat Karicherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	3	3	18
	Manipur Niskar GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	3	3	18
	Baruncherra Kukicherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	5	5	30
	Dhalai Bagan GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Water Harvesting Structure**	2	2	12
Algapur	Panchgram GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	2	1	3.4
	Uttar Kanchanpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	6	3	10.2
	Chiporsangan GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	8	4	13.6
	Chandipur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	7	3.5	11.9
	Bashbari GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	9	4.5	15.3
	Mohanpur Burniebraes GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	8	4	13.6
	Paschim Mohanpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	4	2	6.8
Hailakandi	Basdohar Borhailakandi GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	9	4.5	15.3
	Sudarsanpur Bandukmara GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	5	2.5	8.5
	Bahadurpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	6	3	10.2
	Bhatirkupa GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	7	3.5	11.9
	Kanchanpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	14	7	23.8
	Ujankupa GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	4	2	6.8
	Serispur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	4	2	6.8
	Ratanpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	9	4.5	15.3
	Rangauti GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	12	6	20.4
Lala	Mohammadpur Joy Krishnapur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	4	2	6.8
	Lalacherra Vernerpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	6	3	10.2
	Niz Vernerpur Sarbanandapur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	3	1.5	5.1
	Rajyeswarpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	2	1	3.4
	Lalamukh GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	8	4	13.6
	Sudarsanpur Kalacherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	8	4	13.6
	Nimaichanpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	5	2.5	8.5
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	2	1	3.4
	Chandrapur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	3	1.5	5.1
	Purbo Kittarbond Rajyeswarpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	1	0.5	1.7
	Koyah Ramchandi GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	4	2	6.8
	Aynakhal TE GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	8	4	13.6
	Nichintapur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	1	0.5	1.7
	Monacherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	1	0.5	1.7
	Borbond GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	5	2.5	8.5
	Bowerghat GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	3	1.5	5.1
	Dhalcherra Bilaipur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	1	0.5	1.7
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	3	1.5	5.1
	Sahabad GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	5	2.5	8.5

	Sonacherra Rupacherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	4	2	6.8
	Dinanathpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	6	3	10.2
	Appin Rangpur GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	4	2	6.8
	Dholai Molai GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	5	2.5	8.5
	Katlicherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	3	1.5	5.1
South Hailakandi	Gharmura Bagcherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	6	3	10.2
	Killarbak Jhalnacherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	14	7	23.8
	Jamira GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	19	9.5	32.3
	Baldabaldi Nandagram GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	8	4	13.6
	Polaycherra Sultanicherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	4	2	6.8
	Dariarghat Karicherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	9	4.5	15.3
	Manipur Niskar GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	7	3.5	11.9
	Baruncherra Kukicherra GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	5	2.5	8.5
	Dhalai Bagan GP	MOA & FW	DAC & FW	**Per Drop More Crop**	**Ring Well with small diesel pump**	5	2.5	8.5
Total						**675**	**559**	**2758.2**

SOIL CONSERVATION

Block	Concerned Ministry / Departmet	Component	Name of Activities	Phy.		Fin.
				Total No./Capacity (cum)	C. Area/ Irri. Potl. (Ha.)	Estimated Cost (Rs. in Lakhs)
Algapur	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
	DOLR	**Watershed**	Farm Pond	17	17	28.9
	DOLR	**Watershed**	Check Dams	8	800	112
	DOLR	**Watershed**	Fishery Ponds / Cattle Pond	10	10	25
	DOLR	**Watershed**	Land Development & other Soil Moisture Conservation Activities	28	373	67.2
	DOLR	**Watershed**	Creation of Vegetative Cover	12	12	13.92
	DOLR	**Watershed**	**Sub Total (1 a)**	**75**	**1212**	**247.02**
	DOLR	**Watershed**	**Renovated WHS and other Soil Moisture Conservation Activities**			
	DOLR	**Watershed**	Farm Pond	17	17	17
	DOLR	**Watershed**	Renovation & Maintenance of Irrigation canals & Drains	10	162	26.79
	DOLR	**Watershed**	**Sub Total (1 b)**	**27**	**179**	**43.79**
	Total (1)			**102**	**1391**	**290.81**
Hailakandi	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
	DOLR	**Watershed**	Farm Pond	13	13	22.1
	DOLR	**Watershed**	Check Dams	3	300	42
	DOLR	**Watershed**	Fishery Ponds / Cattle Pond	13	13	32.5
	DOLR	**Watershed**	Land Development & other Soil Moisture Conservation Activities	21	343	61.75
	DOLR	**Watershed**	Creation of Vegetative Cover	16	16	18.56

	DOLR	**Watershed**	**Sub Total**	**66**	**685**	**176.91**
	DOLR	**Watershed**	**Renovated WHS and other Soil Moisture Conservation Activities**			
	DOLR	**Watershed**	Farm Pond	12	12	12
	DOLR	**Watershed**	Renovation & Maintenance of Irrigation canals & Drains	10	155	25.54
	DOLR	**Watershed**	**Sub Total**	**22**	**167**	**37.54**
	Total (2)			**88**	**852**	**214.45**
Katlicherra	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
	DOLR	**Watershed**	Farm Pond	12	12	20.4
	DOLR	**Watershed**	Check Dams	8	800	112
	DOLR	**Watershed**	Fishery Ponds / Cattle Pond	9	9	22.5
	DOLR	**Watershed**	Land Development & other Soil Moisture Conservation Activities	16	321	57.78
	DOLR	**Watershed**	Creation of Vegetative Cover	25	25	29
	DOLR	**Watershed**	**Sub Total**	**70**	**1167**	**241.68**
	DOLR	**Watershed**	**Renovated WHS and other Soil Moisture Conservation Activities**			
	DOLR	**Watershed**	Farm Pond	18	18	18
	DOLR	**Watershed**	Renovation & Maintenance of Irrigation canals & Drains	18	128.4	21.186
	DOLR	**Watershed**	**Sub Total**	**36**	**146.4**	**39.186**
	Total (3)			**106**	**1313.4**	**280.866**
Lala	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
	DOLR	**Watershed**	Farm Pond	20	20	34
	DOLR	**Watershed**	Check Dams	6		84
	DOLR	**Watershed**	Fishery Ponds / Cattle Pond	9	9	22.5
	DOLR	**Watershed**	Land Development & other Soil Moisture Conservation Activities	24	481.5	86.67
	DOLR	**Watershed**	Creation of Vegetative Cover	12	12	13.92
	DOLR	**Watershed**	**Sub Total**	**71**	**522.5**	**241.09**
	DOLR	**Watershed**	**Renovated WHS and other Soil Moisture Conservation Activities**			
	DOLR	**Watershed**	Farm Pond	19	19	19
	DOLR	**Watershed**	Renovation & Maintenance of Irrigation canals & Drains	8	128.4	21.186
	DOLR	**Watershed**	**Sub Total**	**27**	**147.4**	**40.186**
	Total (4)			**98**	**669.9**	**281.276**
South Hailakandi	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
	DOLR	**Watershed**	Farm Pond	23	23	39.1
	DOLR	**Watershed**	Check Dams	8	800	112
	DOLR	**Watershed**	Fishery Ponds / Cattle Pond	11	11	27.5
	DOLR	**Watershed**	Land Development & other Soil Moisture Conservation Activities	24	367	66
	DOLR	**Watershed**	Creation of Vegetative Cover	13	13	15.08
	DOLR	**Watershed**	**Sub Total**	**79**	**1214**	**259.68**
	DOLR	**Watershed**	**Renovated WHS and other Soil Moisture Conservation Activities**			
	DOLR	**Watershed**	Farm Pond	15	15	15
	DOLR	**Watershed**	Renovation & Maintenance of Irrigation canals & Drains	12	174	28.68

	DOLR	Watershed	Sub Total	27	189	43.68
	Total (5)			106	1403	303.36
Total Soil Conservation Cost for the 1st year – 2016-17						Rs 1370.762

DRDA

Block	GP / Village Name	Concerned Ministry / Department	Component	Activity	Qty / No.s	Command Area	Estimated Cost
Algapur		DoLR-DoRD	Convergence with MGNERGA	Land Development	82	1244	224
		DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	39	39	45.24
		DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	34	542	89.32
		DoLR-DoRD	Convergence with MGNERGA	Guard Wall	3000 mtr	400 bigha	145
	Algapur Block	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund in the both side of Pola	18000 m		270
	Panchgram GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	3600 m		54
	Uttar Kanchanpur GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	7200 m		108
	Bakrihowar GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	22600 m		339
	Chiporsangan GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	4200 m		63
	Chandipur GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	6000 m		90
	Bashbari GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	5100 m		76.5
	Algapur GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	8400 m		126
	Mohanpur Burniebraes GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	14000 m		210
	Mohanpur GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	12000 m		180
	Uttar Narayanpur GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	7000 m		105
	Paschim Mohanpur	DoLR-DoRD	Convergence with	Agril. Bund	11000 m		165

	GP		MGNERGA				
	Saidbond GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	3200 m		48
Hailakandi		DoLR-DoRD	Convergence with MGNERGA	Land Development	63	1029	185.25
		DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	55	55	63.8
		DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	32	464	76.62
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Berakhal & Moragang	9000 Sqm		9.9
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Inglaikhal	6300 Sqm		6.93
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Kanchikata Nala	7500 Sqm		8.25
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Asialibeel	10000 Sqm		11
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Kukicherra & Kalacherra Nala	15000 Sqm		16.5
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Jugirkhal	12000 Sqm		13.2
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Anowardal	7500 Sqm		8.25
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Durgimara Nala	9000 Sqm		9.9
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Boalipar Anowa	15000 Sqm		16.5
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Kara Nala	7500 Sqm		8.25
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Katairkuri Nala	7500 Sqm		8.25
	Basdohar Borhailakandi GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	3000 m		45
	Sudarsanpur Bandukmara GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	3000 m		45
	Bahadurpur GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	1000 m		15
	Narayanpur Tupkana GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	2000 m		30
	Boalipar GP	DoLR-DoRD	Convergence with	Agril. Bund	2000 m		30

			MGNERGA				
	Bhatirkupa GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	10500 m		157.5
	Rangauti GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	7000 m		105
Lala		DoLR-DoRD	Convergence with MGNERGA	Land Development	87	1605	288.9
		DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	40	40	46.4
		DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	30	428	70.62
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Magura Khal	6000 Sqm		6.6
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Puti Khal	3000 Sqm		3.3
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Balu Nala	10000 Sqm		11
	Tantoo Dhanipur GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	4000 m		60
	Aynakhal TE GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	2000 m		30
Katlicherra		DoLR-DoRD	Convergence with MGNERGA	Land Development	66	1070	192.6
		DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	85	85	98.6
		DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	30	428	70.62
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Paglacherra Nala	2000 Sqm		2.2
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Pratapnagar Nala	5000 Sqm		5.5
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Lalcherra Nala	5000 Sqm		5.5
		DoLR-DoRD	Convergence with MGNERGA	Desiltation of Saraspuri Nala	5000 Sqm		5.5
	Harishnagar GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	4000 m		60
	Sahabad GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	5000 m		75
	Sonacherra	DoLR-DoRD	Convergence with	Agril. Bund	1000 m		15

	Rupacherra GP		MGNERGA				
	Dinanathpur GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	1500 m		22.5
	Appin Rangpur GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	3000 m		45
South Hailakandi		DoLR-DoRD	Convergence with MGNERGA	Land Development	81	1222	220
		DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	42	42	48.72
		DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	46	579	95.62
	Jamira GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	1000 m		15
	Baldabaldi Nandagram GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	3000 m		45
	Polaycherra Sultanicherra GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	2000 m		30
	Dariarghat Karicherra GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	3000 m		45
	Manipur Niskar GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	3000 m		45
	Baruncherra Kukicherra GP	DoLR-DoRD	Convergence with MGNERGA	Agril. Bund	4000 m		60
Total Estimated Cost under DRDA for 2016-17							**4927.34**

Water Resource Department

Block	GP / Village	Concerned Ministry / Dept.	Component	Activity	Total Number / Capacity (Cum)	Command Area / Irrigation Potential (Ha)	Period of Implementation (5/7 years)	Estimated Cost (in Lac)
Algapur	Bakrihaor Village	MOWR	Hark het ko Pani	Removal of water loggin at Bakrihaor area by canal costruction and pumping for irrigation	1	1000 hactre	3 yrs	5000

2017-18 Irrigation plan of Hailakandi District

Irrigation Department

Block	GP/Village	Concerned Ministry / Dept.	Component	Activity	Total Number / Capacity (Cum)	Command Area/ Irrigation Potential (Ha)	Period of Implementation (5/7 Years)	Estimated Cost (Rs. in Lac.)
1	2	3	4	5	6	7	8	9
Hailakandi	Boalipar G.P)	MOWR	AIBP	**Surface Minor Irrigation (ELIS)**	1 Nos /15 H.P	20	1 yrs	60.00
	Bhatirkupa G.P)			Lift & Solar Pump	1 Nos / 15 H.P	22	1 yrs	60.00
	Gangpar Dhumkar G.P)			DO	1 Nos /15 H.P	25	1 yrs	70.00
	Rangauti G.P)			DO	1 Nos /15 H.P	20	1 yrs	75.00
	Nitainagar G.P)			DO	1 Nos /15 H.P	25	1 yrs	70.00
	Kanchanpur G.P)			DO	1 Nos./15 H.P	20	1 yrs	70.00
	Matijuri Paikan G.P)			DO	1 Nos /15 H.P	20	1 yrs	65.00
Algapur	Algapur G.P)			Lift & Solar Pump	1 Nos /15 H.P	20	1 yrs	65.00
	Uttarkanchanpur G.P			DO	1 Nos.	20	1 yrs	65.00
	Bhakrihowar G.P			DO	1 Nos.	25	1 yrs	60.00
	Chiporsangan G.P			DO	1 Nos.	20	1 yrs	65.00
	Chandipur G.P			DO	1 Nos.	20	1 yrs	55.00
	Mohanpur Burniebres G.P			DO	1 Nos.	24	1 yrs	62.00
	SayedBond G.P			DO	1 Nos.	20	1 yrs	70.00
South-Hailakandi	Baldabaldi Nandagram G.P)			Lift with Solar Pump	1 Nos.	18	1 yrs	65.00
	Dholai Bagan G.P)			DO	1 Nos.	20	1 yrs	65.00
	Killarbak Jhalnacherra G.P)			DO	1 Nos.	20	1 yrs	60.00
	Manipur Niskar G.P)			DO	1 Nos.	18	1 yrs	55.00
	Gharmura Baghcherra G.P)			DO	1 Nos.	24	1 yrs	60.00
	Baruncherra Kukicherra G.P)			DO	1 Nos.	20	1 yrs	75.00
	Jamira G.P)			DO	1 Nos.	25	1 yrs	65.00
	Dhariarghat Karicherra G.P)			DO	1 Nos.	23	1 yrs	55.00
	Palaicherra G.P)			DO	1 Nos.	17	1 yrs	54.00
Algapur	Algapur G.P	MOWR	AIBP	Lift & Solar Pump	1 Nos.	16	1 yrs	55.00
								1521.00

Sl No	Name of the Dev. Block/Sub-District	Concerned Ministry/Development	Component	Activity	Name of Irrigation Scheme	Nos. Of Irrigation Scheme	Command Area/Irrigation Potential (Ha)	Period of Implemetation	Estimated Cost (Rs. In Lakhs)
1	Kattlicherra	MOWR	Her Khet Ko Pani Do	Ground Water Development	D.T.W. Scheme in Appin Pt-I (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
2					D.T.W. Scheme in Appin Pt-II (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00

3					D.T.W. Scheme in Rongpur Pt-I (Solar)	1 Nos/ 15 HP	22	1 yrs	65.00
4					D.T.W. Scheme in Rongpur Pt-II (Solar)	1 Nos/ 15 HP	27	1 yrs	65.00
5					D.T.W. Scheme in Sahabad Pt-I (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
6					D.T.W. Scheme in Sahabad Pt-II (Solar)	1 Nos/ 15 HP	19	1 yrs	65.00
7					D.T.W. Scheme in Rongpur Pt-III (Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
8					D.T.W. Scheme in Rangabak (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
9					D.T.W. Scheme in Katlicherra (Solar)	1 Nos/ 15 HP	21	1 yrs	65.00
10					D.T.W. Scheme in Bhogobanpur (Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
11					D.T.W. Scheme in Bukabil (Solar)	1 Nos/ 15 HP	24	1 yrs	65.00
12					D.T.W. Scheme in Dinonathpur Pt-I (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
13	Kattlicherra	MOWR	Her Kheth Ko Pani Do	Ground Water Development	D.T.W. Scheme in Lumar Dholai (Solar)	1 Nos/ 15 HP	22	1 yrs	65.00
14					D.T.W. Scheme in Annanda Bazar (Solar)	1 Nos/ 15 HP	23	1 yrs	65.00
15	Lala	MOWR	Her Kheth Ko Pani Do	Ground Water Development	D.T.W. Scheme in Niz-Vernerpur Pt-I (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
16					D.T.W. Scheme in Sarbanandapur (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
17					D.T.W. Scheme in Saralipur (Solar)	1 Nos/ 15 HP	22	1 yrs	65.00
18					D.T.W. Scheme in Lalapur (Solar)	1 Nos/ 15 HP	27	1 yrs	65.00
19					D.T.W. Scheme in Kacharithal (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
20					D.T.W. Scheme in Lalacherra Vernerpur GP (Solar)	1 Nos/ 15 HP	19	1 yrs	65.00
21					D.T.W. Scheme in Saralipur (Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
22					D.T.W. Scheme in Dhanipur (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
23					D.T.W. Scheme in Rongpur Pt-VI (Solar)	1 Nos/ 15 HP	21	1 yrs	65.00
24					D.T.W. Scheme in Aynarkhal G.P.(Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
25					D.T.W. Scheme in Moncherra G.P.(Solar)	1 Nos/ 15 HP	24	1 yrs	65.00
26					D.T.W. Scheme in Bawarghat G.P.(Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
27					D.T.W. Scheme in Rajeswarpur G.P.(Solar)	1 Nos/ 15 HP	22	1 yrs	65.00
28					D.T.W. Scheme in Kalacherra Sudarshanpur G.P.(Solar)	1 Nos/ 15 HP	23	1 yrs	65.00
29					D.T.W. Scheme in Nimaichandpur G.P.(Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
30					D.T.W. Scheme in Lalamuk G.P.(Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
31	South-Hailakandi	MOWR	Her Kheth Ko Pani Do	Ground Water Development	D.T.W. Scheme in Manipur Niskar (Solar)	1 Nos/ 15 HP	22	1 yrs	65.00
32					D.T.W. Scheme in Dhariarghat (Solar)	1 Nos/ 15 HP	27	1 yrs	65.00
33					D.T.W. Scheme in Karicherra (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
34					D.T.W. Scheme in Nagacherra (Solar)	1 Nos/ 15 HP	19	1 yrs	65.00
35					D.T.W. Scheme in Sampur (Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
36					D.T.W. Scheme in Paloicherra Pt-I (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
37					D.T.W. Scheme in Paloicherra Pt-II (Solar)	1 Nos/ 15 HP	21	1 yrs	65.00
38					D.T.W. Scheme in Baldabaldi Nandagram G.P. (Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
39					D.T.W. Scheme in Jamira G.P.(Solar)	1 Nos/ 15 HP	24	1 yrs	65.00
40					D.T.W. Scheme in Gharmura Bagacherra G.P.	1 Nos/ 15 HP	25	1 yrs	65.00

					(Solar)				
41	South-Hailakandi	MOWR	Her Kheth Ko Pani Do	Ground Water Development	D.T.W. Scheme in Killarbak Jalnacherra G.P. (Solar)	1 Nos/ 15 HP	22	1 yrs	65.00
42					D.T.W. Scheme in Baruncherra Kukicherra G.P. (Solar)	1 Nos/ 15 HP	23	1 yrs	65.00
43					D.T.W. Scheme in Dhariar Grant (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
44	Hailakandi	MOWR	Her Kheth Ko Pani Do	Ground Water Development	D.T.W. Scheme in Vichingcha Pt-I Bawarghat G.P.(Solar) 5Pts	1 No/ 15 HP	30	1 Yrs	70.00
45					D.T.W. Scheme in Narainpur Pt-IV, Narainpur Tupkhana G.P. (Solar) 5Pts	1 No/ 15 HP	25	5 years	65.00
46					D.T.W. Scheme in Barbond Pt-II Barbond G.P. (Solar) 5Pts	1 No/ 15 HP	22	5 years	60.00
Total									**2990.00**

Agriculture Department

BLOCK	GP / VILLAGE	Concerned Ministry / Department	Component	Activity	Total number / Capacity (Cum)	COMMAND AREA	Estimated Cost
Hailakandi	Bashdahar Barhailakandi GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	1	25	7.5
	Narayanpur Tupkana GP	MOA & FW DAC & FW			2	50	15
	Boalipar GP	MOA & FW DAC & FW			1	25	7.5
	Kanchanpur GP	MOA & FW DAC & FW			1	25	7.5
	Ujankupa GP	MOA & FW DAC & FW			1	25	7.5
	Serispur GP	MOA & FW DAC & FW			1	25	7.5
	Lala:Mahammadpur Joy Krishnapur GP	MOA & FW DAC & FW			1	25	7.5
Lala	Lalacherra Vernerpur GP	MOA & FW DAC & FW		DTW (Electrical)	1	25	7.5
	Niz Vernerpur Sarbanandapur GP	MOA & FW DAC & FW			1	25	7.5
	Sudarshanpur Kalacherra GP	MOA & FW DAC & FW			1	25	7.5
	Chandrapur GP	MOA & FW DAC & FW			1	25	7.5
	Purbo Kittarbond Rajyeswarpur GP	MOA & FW DAC & FW			4	100	30
	Koyah Ramchandi GP	MOA & FW DAC & FW			0	0	0
	Aynakhal TE GP	MOA & FW DAC & FW			1	25	7.5
	Monacherra GP	MOA & FW DAC & FW			2	50	15
	Bowerghat GP	MOA & FW DAC & FW			0	0	0
Algapur	Panchgram GP	MOA & FW DAC & FW		Diesel Lift Irrigation	1	10	4
	Kalinagar GP	MOA & FW DAC & FW			2	20	8
	Uttar Kanchanpur GP	MOA & FW DAC & FW			1	10	4

	Chiparsangan GP	MOA & FW	DAC & FW		1	10	4
	Chandipur GP	MOA & FW	DAC & FW		1	10	4
	Bashbari GP	MOA & FW	DAC & FW		2	20	8
	Mohanpur Burniebraes GP	MOA & FW	DAC & FW		1	10	4
	Mohanpur GP	MOA & FW	DAC & FW		4	40	16
	Uttar Narayanpur GP	MOA & FW	DAC & FW		1	10	4
	Paschim Mohanpur GP	MOA & FW	DAC & FW		0	0	0
	Saidbond GP	MOA & FW	DAC & FW		1	10	4
Hailakandi	Bashdahar Barhailakandi GP	MOA & FW	DAC & FW	Diesel Lift Irrigation	2	20	8
	Sudarshanpur Bandukmara GP	MOA & FW	DAC & FW		0	0	0
	Bahadurpur GP	MOA & FW	DAC & FW		3	30	12
	Matijuri Paikan GP	MOA & FW	DAC & FW		2	20	8
	Narayanpur Tupkana GP	MOA & FW	DAC & FW		1	10	4
	Boalipar GP	MOA & FW	DAC & FW		3	30	12
	Bhatirkupa GP	MOA & FW	DAC & FW		3	30	12
	Ujankupa GP	MOA & FW	DAC & FW		1	10	4
	Gangpar Dumkar Laxmirbond GP	MOA & FW	DAC & FW		2	20	8
	Ratanpur GP	MOA & FW	DAC & FW		4	40	16
	Rangauti GP	MOA & FW	DAC & FW		6	60	24
Lala	Rajyeswarpur GP	MOA & FW	DAC & FW	Diesel Lift Irrigation	2	20	8
	Jyotsnabad Umednagar GP	MOA & FW	DAC & FW		1	10	4
	Lalamukh GP	MOA & FW	DAC & FW		1	10	4
	Sudarshanpur Kalacherra GP	MOA & FW	DAC & FW		1	10	4
	Tantoo Dhanipur GP	MOA & FW	DAC & FW		2	20	8
	Nichintapur GP	MOA & FW	DAC & FW		1	10	4
	Monacherra GP	MOA & FW	DAC & FW		1	10	4
	Borbond GP	MOA & FW	DAC & FW		1	10	4
	Bowerghat GP	MOA & FW	DAC & FW		1	10	4
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Diesel Lift Irrigation	0	0	0
	Harishnagar GP	MOA & FW	DAC & FW		6	60	24
	Sahabad GP	MOA & FW	DAC & FW		5	50	20
	Sonacherra Rupacherra GP	MOA & FW	DAC & FW		1	10	4
	Dinanathpur GP	MOA & FW	DAC & FW		1	10	4
	Appin Rangpur GP	MOA & FW	DAC & FW		2	20	8
	Dhalai Malai GP	MOA & FW	DAC & FW		2	20	8
	Katlicherra GP	MOA & FW	DAC & FW		1	10	4
South Hailakandi	Palaycherra Sultanicherra GP	MOA & FW	DAC & FW	Diesel Lift Irrigation	2	20	8
Algapur:	Mohanpur Burnebrease GP	MOA & FW	DAC & FW	**Spillway**	1		4

	Mohanpur GP	MOA & FW DAC & FW			1		4
	Chandipur GP	MOA & FW DAC & FW			1		4
	Bashbari GP	MOA & FW DAC & FW			0		0
Hailakandi:	Sudarshanpur Bandukmara GP	MOA & FW DAC & FW		**Spillway**	0		0
	Bhatirkupa GP	MOA & FW DAC & FW			2		8
	Ujankupa GP	MOA & FW DAC & FW			0		0
	Nitainagar GP	MOA & FW DAC & FW			1		4
Lala:	Lalacherra Vernerpur GP	MOA & FW DAC & FW		Spillway	0		0
	Rajyeswarpur GP	MOA & FW DAC & FW		Spillway	1		4
	Lalamukh GP	MOA & FW DAC & FW		Spillway	1		4
	Sudarshanpur Kalacherra GP	MOA & FW DAC & FW		Spillway	1		4
	Tantoo Dhanipur GP	MOA & FW DAC & FW		Spillway	3		12
	Aynakhal TE GP	MOA & FW DAC & FW		Spillway	0		0
	Borbond GP	MOA & FW DAC & FW		Spillway	1		4
	Bowerghat GP	MOA & FW DAC & FW		Spillway	1		4
Katlicherra	Rangabak GP	MOA & FW DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Harishnagar GP	MOA & FW DAC & FW		Spillway	1		4
	Sonacherra Rupacherra GP	MOA & FW DAC & FW		Spillway	1		4
	Dinanathpur GP	MOA & FW DAC & FW		Spillway	1		4
	Appin Rangpur GP	MOA & FW DAC & FW		Spillway	1		4
	Katlicherr GP	MOA & FW DAC & FW		Spillway	1		4
Algapur	Algapur	MOA & FW DAC & FW			30	60	7.95
Hailkakandi	Hailkakandi	MOA & FW DAC & FW			29	58	7.685
Lala	Lala	MOA & FW DAC & FW		**Electrical LLP**	39	78	10.335
Katlicherra	Katlicherra	MOA & FW DAC & FW			20	40	5.3
South Hailakandi	South Hailakandi	MOA & FW DAC & FW			32	64	8.48
Total							**550.25**

Block	gp / village	Minsitry / Dept	Component	Activity	Total Nos. / Capacity (cum)	Command Area	Estimated Cost
Hailakandi:	Sudarshanpur Bandukmara GP	MOA & FW DAC & FW	Per Drop More Crop	**Drip Irrigation**	1	2	4
	Boalipar GP	MOA & FW DAC & FW	Per Drop More Crop	**Drip Irrigation**	1	2	4
	Bhatirkupa GP	MOA & FW DAC & FW	Per Drop More Crop	**Drip Irrigation**	1	2	4
	Kanchanpur GP	MOA & FW DAC & FW	Per Drop More Crop	**Drip Irrigation**	4	8	16
	Sirispur GP	MOA & FW DAC & FW	Per Drop More Crop	**Drip Irrigation**	2	4	8
	Gangpar Dumkar Lakhirbond GP	MOA & FW DAC & FW	Per Drop More Crop	**Drip Irrigation**	3	6	12
	Ratanpur GP	MOA & FW DAC & FW	Per Drop More Crop	**Drip Irrigation**	4	8	16
	Rangauti GP	MOA & FW DAC & FW	Per Drop More Crop	**Drip Irrigation**	6	12	24

	Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Sprinkler Irrigation**	4	8	8
Algapur:	Panchgram GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	3	3	18
	Kalinagar GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	4	4	24
	Uttar Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	10	10	60
	Bakrihowar GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	10	10	60
	Chiporsangan GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	10	10	60
	Chandipur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	11	11	66
	Bashbari GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	10	10	60
	Algapur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	6	6	36
	Mohanpur Burniebraes GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	10	10	60
	Mohanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	9	9	54
	Uttar Narayanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	6	6	36
	Paschim Mohanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	4	4	24
	Saidbond GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	5	5	30
Hailakandi	Basdohar Borhailakandi GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	8	8	48
	Sudarsanpur Bandukmara GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	5	5	30
	Bahadurpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	6	6	36
	Narayanpur Tupkana GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	12	12	72
	Boalipar GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	21	21	126
	Bhatirkupa GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	10	10	60
	Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	10	10	60
	Ujankupa GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	5	5	30
	Serispur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	10	10	60
	Gangpar Dumkar Laxmirbond GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	27	27	162
	Nitainagar GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	3	3	18
	Ratanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	11	11	66
	Rangauti GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	11	11	66
Lala	Mohammadpur Joy Krishnapur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	4	4	24
	Lalacherra Vernerpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	4	4	24
	Niz Vernerpur Sarbanandapur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	3	3	18
	Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	3	3	18
	Jyotsnabad Umednagar GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	2	2	12
	Lalamukh GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	1	1	6
	Sudarsanpur Kalacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	3	3	18
	Nimaichanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	3	3	18
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	7	7	42
	Chandrapur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	4	4	24
	Purbo Kittarbond Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	2	2	12
	Koyah Ramchandi GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	2	2	12
	Aynakhal TE GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	4	4	24

	Nichintapur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	4	4	24
	Monacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	2	2	12
	Borbond GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	4	4	24
	Bowerghat GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	4	4	24
	Dhalcherra Bilaipur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	4	4	24
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	2	2	12
	Harishnagar GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	1	1	6
	Sahabad GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	5	5	30
	Katlicherra	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	3	3	18
	Dinanathpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	4	4	24
	Appin Rangpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	2	2	12
	Dholai Molai GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	4	4	24
	Katlicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	2	2	12
South Hailakandi	Gharmura Bagcherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	4	4	24
	KIllarbak Jhalnacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	5	5	30
	Jamira GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	6	6	36
	Baldabaldi Nandagram GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	6	6	36
	Polaycherra Sultanicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	2	2	12
	Dariarghat Karicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	2	2	12
	Manipur Niskar GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	2	2	12
	Baruncherra Kukicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	5	5	30
	Dhalai Bagan GP	MOA & FW	DAC & FW	Per Drop More Crop	**Water Harvesting Structure**	2	2	12
Algapur	Panchgram GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	2	1	3.4
	Uttar Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	6	3	10.2
	Chiporsangan GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	8	4	13.6
	Chandipur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	7	3.5	11.9
	Bashbari GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	8	4	13.6
	Mohanpur Burniebraes GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	8	4	13.6
	Paschim Mohanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	4	2	6.8
Hailakandi	Basdohar Borhailakandi GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	9	4.5	15.3
	Sudarsanpur Bandukmara GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	5	2.5	8.5
	Bahadurpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	6	3	10.2
	Bhatirkupa GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	7	3.5	11.9
	Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	14	7	23.8
	Ujankupa GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	4	2	6.8
	Serispur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	3	1.5	5.1
	Ratanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	9	4.5	15.3
	Rangauti GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	12	6	20.4
Lala	Mohammadpur Joy Krishnapur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	4	2	6.8
	Lalacherra Vernerpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	5	2.5	8.5

	Niz Vernerpur Sarbanandapur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	3	1.5	5.1
	Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	2	1	3.4
	Lalamukh GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	8	4	13.6
	Sudarsanpur Kalacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	8	4	13.6
	Nimaichanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	5	2.5	8.5
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	2	1	3.4
	Chandrapur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	3	1.5	5.1
	Purbo Kittarbond Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	1	0.5	1.7
	Koyah Ramchandi GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	4	2	6.8
	Aynakhal TE GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	8	4	13.6
	Nichintapur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	1	0.5	1.7
	Monacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	1	0.5	1.7
	Borbond GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	5	2.5	8.5
	Bowerghat GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	2	1	3.4
	Dhalcherra Bilaipur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	1	0.5	1.7
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	3	1.5	5.1
	Sahabad GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	5	2.5	8.5
	Sonacherra Rupacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	4	2	6.8
	Dinanathpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	6	3	10.2
	Appin Rangpur GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	4	2	6.8
	Dholai Molai GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	5	2.5	8.5
	Katlicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	3	1.5	5.1
South Hailakandi	Gharmura Bagcherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	6	3	10.2
	Killarbak Jhalnacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	13	6.5	22.1
	Jamira GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	19	9.5	32.3
	Baldabaldi Nandagram GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	8	4	13.6
	Polaycherra Sultanicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	4	2	6.8
	Dariarghat Karicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	9	4.5	15.3
	Manipur Niskar GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	7	3.5	11.9
	Baruncherra Kukicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	5	2.5	8.5
	Dhalai Bagan GP	MOA & FW	DAC & FW	Per Drop More Crop	**Ring Well with small diesel pump**	5	2.5	8.5
Total						**661**	**546.5**	**2697.7**

SOIL CONSERVATION

Block	Concerned Ministry / Department	Component	Activities	Phy.		Fin.
				No.	C. Area/ Irri. Potl. (Ha.)	(Rs. in Lakhs)
Algapur	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			

			Farm Pond	14	14	23.8
			Check Dams	7	700	98
			Fishery Ponds / Cattle Pond	8	8	20
			Land Development & other Soil Moisture Conservation Activities	21	311	56
			Creation of Vegetative Cover	10	10	11.6
			Sub Total	**60**	**1043**	**209.4**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	14	14	14
			Renovation & Maintenance of Irrigation canals & Drains	8	135	22.33
			Sub Total	**22**	**149**	**36.33**
	Total			**82**	**1192**	**245.73**
Hailakandi	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	11	11	18.7
			Check Dams	2	200	28
			Fishery Ponds / Cattle Pond	11	11	27.5
			Land Development & other Soil Moisture Conservation Activities	16	257	46.31
			Creation of Vegetative Cover	14	14	16.24
			Sub Total	**54**	**493**	**136.75**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	10	10	10
			Renovation & Maintenance of Irrigation canals & Drains	8	116	19.16
			Sub Total	**18**	**126**	**29.16**
	Total			**72**	**619**	**165.91**
Katlicherra	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	10	10	17
			Check Dams	7	700	98
			Fishery Ponds / Cattle Pond	7	7	17.5
			Land Development & other Soil Moisture Conservation Activities	14	267.5	48.15
			Creation of Vegetative Cover	21	21	24.36
			Sub Total	**59**	**1005.5**	**205.01**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	15	15	15
			Renovation & Maintenance of Irrigation canals & Drains	6	107	17.655
			Sub Total	**21**	**122**	**32.655**

	Total			**80**	**1127.5**	**237.665**
Lala	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	17	17	28.9
			Check Dams	5		70
			Fishery Ponds / Cattle Pond	7	7	17.5
			Land Development & other Soil Moisture Conservation Activities	21	401.25	72.225
			Creation of Vegetative Cover	10	10	11.6
			Sub Total	**60**	**435.25**	**200.225**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	16	16	16
			Renovation & Maintenance of Irrigation canals & Drains	7	107	17.655
			Sub Total	**23**	**123**	**33.655**
	Total			**83**	**558.25**	**233.89**
South Hailakandi	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	17	17	28.9
			Check Dams	7	700	98
			Fishery Ponds / Cattle Pond	10	10	25
			Land Development & other Soil Moisture Conservation Activities	20	305	55
			Creation of Vegetative Cover	10	10	11.6
			Sub Total	**64**	**1042**	**218.5**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	13	13	13
			Renovation & Maintenance of Irrigation canals & Drains	10	145	23.9
			Sub Total	**23**	**158**	**36.9**
			Total	**87**	**1200**	**255.4**
Total Estimated Cost for 2017-18						**1138.595**

DRDA

Block	Concerned Ministry / Department	Component	Activity	Qty / No.s	Command Area	Implementation Year	Estimated Cost
Algapur	**DoLR-DoRD**	**Convergence with MGNERGA**	Land Development	82	1244	5 yr	224
			Creation of Vegetative Cover	39	39	5 yrs	45.24
			Renovation & Maintenance of Irrigation Canal & Drains	34	542	5 yrs	89.32
			Earthen embankment from Railway line to Bolalikhal via	1500 mtr	400 bigha	2nd yr	35

			Bangalikhal west side				
Hailakandi			Land Development	63	1029	5 Yrs	185.25
			Creation of Vegetative Cover	55	55	5 Yrs	63.8
			Renovation & Maintenance of Irrigation Canal & Drains	32	464	5 Yrs	76.62
Lala			Land Development	87	1605	5 yrs	288.9
			Creation of Vegetative Cover	40	40	5 yrs	46.4
			Renovation & Maintenance of Irrigation Canal & Drains	30	428	5 yrs	70.62
Katlicherra			Land Development	66	1070	5 yr	192.6
			Creation of Vegetative Cover	85	85	5 yr	98.6
			Renovation & Maintenance of Irrigation Canal & Drains	30	428	5 yr	70.62
South Hailakandi			Land Development	81	1222	5 yrs	220
			Creation of Vegetative Cover	42	42	5 yrs	48.72
			Renovation & Maintenance of Irrigation Canal & Drains	46	579	5 yrs	95.62
Total Estimated Cost for DRDA for 2017-18							**1851.31**

Water Resource Department

Block	GP / Village	Concerned Ministry / Dept.	Component	Activity	Total Number / Capacity (Cum)	Area to be covered	Period of Implementation (5/7 years)	Estimated Cost (in Lac)
Algapur	Algapur	MOWR	Har Khet ko Pani	Dreadging of Hatia Channel	1	15 KM	2	1000
	Chiparsangan							
	West Mohanpur							
	North Narayanpur							
	Panchgram							

2018-19 Irrigation Plan

Irrigation Department

Block	GP/Village	Concerned Ministry / Dept.	Component	Activity	Total Number / Capacity (Cum)	Command Area/ Irrigation Potential (Ha)	Period of Implementation (5/7 Years)	Estimated Cost (in Lac.)
1	2	3	4	5	6	7	8	9
Hailakandi	Boalipar G.P)	MOWR	AIBP	Surface Minor Irrigation (ELIS)	1 Nos /15 H.P	25	1 yrs	60.00
	Nitainagar G.P)			DO	1 Nos /15 H.P	25	1 yrs	70.00
	Kanchanpur G.P)			DO	1 Nos./15 H.P	25	1 yrs	60.00
Algapur	Bhakrihowar G.P			DO	1 Nos.	25	1 yrs	60.00
South Hailakandi	Killarbak Jhalnacherra G.P)			DO	1 Nos	25	1 yrs	65.00
	Gharmura Baghcherra G.P)			DO	1 Nos	20	1 yrs	60.00
	Jamira G.P)			DO	1 Nos	25	1 yrs	70.00
	Dhariarghat Karicherra G.P)			DO	1 Nos	20	1 yrs	60.00
								505.00

Sl No	Name of the Dev. Block/Sub-District	Concerned Ministry/Development	Component	Activity	Name of Irrigation Scheme	Nos. Of Irrigation Scheme	Command Area/Irrigation Potential (Ha)	Period of Implemetation	Estimated Cost (Rs. In Lakhs)
1	2	3	4	5	6	7	8	9	10
1	Lala	MOWR	Her Kheth Ko Pani Do	Ground Water Development	D.T.W. Scheme in Niz-Vernerpur Pt-II (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
2					D.T.W. Scheme in Niz-Vernerpur Pt-I (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
3					D.T.W. Scheme in Brishnopur (Solar)	1 Nos/ 15 HP	22	1 yrs	65.00
4					D.T.W. Scheme in Sarbanandapur (Solar)	1 Nos/ 15 HP	27	1 yrs	65.00
5					D.T.W. Scheme in Dakhin Jasnabad Pt-II (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
6					D.T.W. Scheme in Dakhin Jasnabad Pt-I (Solar)	1 Nos/ 15 HP	19	1 yrs	65.00
7					D.T.W. Scheme in Tantoo (Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
8					D.T.W. Scheme in Jalalpur (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
9					D.T.W. Scheme in Lalapur (Solar)	1 Nos/ 15 HP	21	1 yrs	65.00
10					D.T.W. Scheme in Joy-Krishnapur (Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
11					D.T.W. Scheme in Balicherra (Solar)	1 Nos/ 15 HP	24	1 yrs	65.00
12					D.T.W. Scheme in Bilaipur (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
13					D.T.W. Scheme in Dhalcherra (Solar)	1 Nos/ 15 HP	22	1 yrs	65.00

14					D.T.W. Scheme in Bangalpur (Solar)	1 Nos/ 15 HP	23	1 yrs	65.00
15					D.T.W. Scheme in Ramchandi (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
16					LIS Scheme in UttarJyshabad Part-I, R/B	1	100	1 yrs	180.00
17					Dhalcherra Water Users Association Dhalcherra F.V. Lower part D.T.W.S. (Solar) Irrigation	1 Nos/ 15 HP	22	1 yrs	65.00
18					D.T.W. Scheme in Mahammadpur-Joykrishnapur G.P. (Solar)	1 Nos/ 15 HP	27	1 yrs	65.00
19					D.T.W. Scheme in Barbond Pt-II (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
20					D.T.W. Scheme in Rongpur Pt-VI (Solar)	1 Nos/ 15 HP	19	1 yrs	65.00
21					D.T.W. Scheme in Rongpur Pt-V (Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
22					D.T.W. Scheme in Aynarkhal G.P.(Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
23					D.T.W. Scheme in Moncherra G.P.(Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
24					D.T.W. Scheme in Rajeswarpur G.P.(Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
25					D.T.W. Scheme in Barbond G.P.(Solar)	1 Nos/ 15 HP	22	1 yrs	65.00
							620		1740.00

Agriculture Department

BLOCK	GP / VILLAGE	Concerned Ministry/Department	Component	Activity	Total No. / Capacity (cum)	COMMAND AREA	Estd. Cost
Hailakandi	Bashdahar Barhailakandi GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	0	0	0
	Narayanpur Tupkana GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	3	75	22.5
	Boalipar GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Kanchanpur GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Ujankupa GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Serispur GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	0	0	0
	Lala:Mahammadpur Joy Krishnapur GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	1	25	7.5
Lala	Lalacherra Vernerpur GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Niz Vernerpur Sarbanandapur GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Sudarshanpur Kalacherra GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Chandrapur GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Purbo Kittarbond Rajyeswarpur GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	4	100	30
	Koyah Ramchandi GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	0	0	0
	Aynakhal TE GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Monacherra GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	2	50	15
	Bowerghat GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	0	0	0
Algapur	Panchgram GP	MOA & FW DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Kalinagar GP	MOA & FW DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Uttar Kanchanpur GP	MOA & FW DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Chiparsangan GP	MOA & FW DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Chandipur GP	MOA & FW DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4

	Bashbari GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Mohanpur Burniebraes GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Mohanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	3	30	12
	Uttar Narayanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Paschim Mohanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Saidbond GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
Hailakandi	Bashdahar Barhailakandi GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Sudarshanpur Bandukmara GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Bahadurpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	3	30	12
	Matijuri Paikan GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Narayanpur Tupkana GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Boalipar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	3	30	12
	Bhatirkupa GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Ujankupa GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Gangpar Dumkar Laxmirbond GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Ratanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	3	30	12
	Rangauti GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	6	60	24
Lala	Rajyeswarpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Jyotsnabad Umednagar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Lalamukh GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Sudarshanpur Kalacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Nichintapur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Monacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Borbond GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Bowerghat GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Harishnagar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	6	60	24
	Sahabad GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	4	40	16
	Sonacherra Rupacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Dinanathpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Appin Rangpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Dhalai Malai GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Katlicherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
South Hailakandi	Palaycherra Sultanicherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
Algapur:	Mohanpur Burnebrease GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Mohanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Chandipur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Bashbari GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0

Hailakandi:	Sudarshanpur Bandukmara GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Bhatirkupa GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Ujankupa GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Nitainagar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
Lala:	Lalacherra Vernerpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Rajyeswarpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Lalamukh GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Sudarshanpur Kalacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	2		8
	Aynakhal TE GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Borbond GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Bowerghat GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Harishnagar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Sonacherra Rupacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Dinanathpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Appin Rangpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Katlicherr GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
Algapur	Algapur	MOA & FW	DAC & FW	Her Khet Ko Pani	Electrical LLP	30	60	7.95
Hailkakandi	Hailkakandi	MOA & FW	DAC & FW	Her Khet Ko Pani	Electrical LLP	28	56	7.42
Lala	Lala	MOA & FW	DAC & FW	Her Khet Ko Pani	Electrical LLP	38	76	10.07
Katlicherra	Katlicherra	MOA & FW	DAC & FW	Her Khet Ko Pani	Electrical LLP	20	40	5.3
South Hailakandi	South Hailakandi	MOA & FW	DAC & FW	Her Khet Ko Pani	Electrical LLP	32	64	8.48
Total								494.22

Block	gp / village	Minsitry / Dept		Component	Activity	Total nos./ Capacity	Command Area	Estd Cost
Hailakandi:	Sudarshanpur Bandukmara GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	1	2	4
	Boalipar GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	1	2	4
	Bhatirkupa GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	1	2	4
	Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	4	8	16
	Sirispur GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	1	2	4
	Gangpar Dumkar Lakhirbond GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	3	6	12
	Ratanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	4	8	16
	Rangauti GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	6	12	24
	Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Sprinkler Irrigation	4	8	8
Algapur:	Panchgram GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Kalinagar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Uttar Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60

	Bakrihowar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Chiporsangan GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Chandipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	11	11	66
	Bashbari GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Algapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	6	6	36
	Mohanpur Burniebraes GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Mohanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	9	9	54
	Uttar Narayanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	6	6	36
	Paschim Mohanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Saidbond GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	5	5	30
Hailakandi	Basdohar Borhailakandi GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	7	7	42
	Sudarsanpur Bandukmara GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	5	5	30
	Bahadurpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	5	5	30
	Narayanpur Tupkana GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	12	12	72
	Boalipar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	21	21	126
	Bhatirkupa GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Ujankupa GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	5	5	30
	Serispur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Gangpar Dumkar Laxmirbond GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	27	27	162
	Nitainagar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Ratanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	11	11	66
	Rangauti GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	11	11	66
Lala	Mohammadpur Joy Krishnapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Lalacherra Vernerpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Niz Vernerpur Sarbanandapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Jyotsnabad Umednagar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Lalamukh GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
	Sudarsanpur Kalacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Nimaichanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	7	7	42
	Chandrapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Purbo Kittarbond Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Koyah Ramchandi GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
	Aynakhal TE GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Nichintapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Monacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Borbond GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Bowerghat GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18

	Dhalcherra Bilaipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
	Harishnagar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	0	0	0
	Sahabad GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	5	5	30
	Katlicherra	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Dinanathpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Appin Rangpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Dholai Molai GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Katlicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
South Hailakandi	Gharmura Bagcherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	KIllarbak Jhalnacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	5	5	30
	Jamira GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	6	6	36
	Baldabaldi Nandagram GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	6	6	36
	Polaycherra Sultanicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Dariarghat Karicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Manipur Niskar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Baruncherra Kukicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	5	5	30
	Dhalai Bagan GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
Algapur	Panchgram GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4
	Uttar Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2
	Chiporsangan GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	7	3.5	11.9
	Chandipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	7	3.5	11.9
	Bashbari GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Mohanpur Burniebraes GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Paschim Mohanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
Hailakandi	Basdohar Borhailakandi GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	9	4.5	15.3
	Sudarsanpur Bandukmara GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Bahadurpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2
	Bhatirkupa GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2
	Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	14	7	23.8
	Ujankupa GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Serispur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	3	1.5	5.1
	Ratanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	9	4.5	15.3
	Rangauti GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	12	6	20.4
Lala	Mohammadpur Joy Krishnapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	3	1.5	5.1
	Lalacherra Vernerpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Niz Vernerpur Sarbanandapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	3	1.5	5.1
	Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4
	Lalamukh GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Sudarsanpur Kalacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	7	3.5	11.9

	Nimaichanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4
	Chandrapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	3	1.5	5.1
	Purbo Kittarbond Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	1	0.5	1.7
	Koyah Ramchandi GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Aynakhal TE GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Nichintapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	1	0.5	1.7
	Monacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	1	0.5	1.7
	Borbond GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Bowerghat GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4
	Dhalcherra Bilaipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	0	0	0
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	3	1.5	5.1
	Sahabad GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Sonacherra Rupacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Dinanathpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2
	Appin Rangpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Dholai Molai GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Katlicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4
South Hailakandi	Gharmura Bagcherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2
	Killarbak Jhalnacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	13	6.5	22.1
	Jamira GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	19	9.5	32.3
	Baldabaldi Nandagram GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Polaycherra Sultanicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Dariarghat Karicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	9	4.5	15.3
	Manipur Niskar GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	7	3.5	11.9
	Baruncherra Kukicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Dhalai Bagan GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
Total						**644**	**531.5**	**2623.5**

Soil Conservation

Block	Concerned Ministry / Department	Component	Activities	Phy.		Fin.
				No.	C. Area/ Irri. Potl. (Ha.)	(Rs. in Lakhs)
Algapur	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	9	9	15.3
			Check Dams	4	400	56
			Fishery Ponds / Cattle Pond	5	5	12.5
			Land Development & other Soil Moisture Conservation Activities	11	187	33.6

			Creation of Vegetative Cover	6	6	6.96
			Sub Total	**35**	**607**	**124.36**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	8	8	8
			Renovation & Maintenance of Irrigation canals & Drains	5	82	13.39
			Sub Total	**13**	**90**	**21.39**
			Total	**48**	**697**	**145.75**
Hailakandi	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	6	6	10.2
			Check Dams	2	200	28
			Fishery Ponds / Cattle Pond	6	6	15
			Land Development & other Soil Moisture Conservation Activities	9	154	27.78
			Creation of Vegetative Cover	8	8	9.28
			Sub Total	**31**	**374**	**90.26**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	6	6	6
			Renovation & Maintenance of Irrigation canals & Drains	5	70	11.5
			Sub Total	**11**	**76**	**17.5**
			Total	**42**	**450**	**107.76**
Katlicherra	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	6	6	10.2
			Check Dams	4	400	56
			Fishery Ponds / Cattle Pond	4	4	10
			Land Development & other Soil Moisture Conservation Activities	12	160.5	28.89
			Creation of Vegetative Cover	12	12	13.92
			Sub Total	**38**	**582.5**	**119.01**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	9	9	9
			Renovation & Maintenance of Irrigation canals & Drains	5	64.2	10.593
			Sub Total	**14**	**73.2**	**19.593**
			Total	**52**	**655.7**	**138.603**
Lala	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	10	10	17
			Check Dams	3		42
			Fishery Ponds / Cattle Pond	5	5	12.5
			Land Development & other Soil Moisture Conservation Activities	14	240.75	43.335
			Creation of Vegetative Cover	6	6	6.96
			Sub Total	**38**	**261.75**	**121.795**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	10	10	10

			Renovation & Maintenance of Irrigation canals & Drains	6	64.2	10.593
			Sub Total	**16**	**74.2**	**20.593**
			Total	**54**	**335.95**	**142.388**
South Hailakandi			**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	10	10	17
			Check Dams	4	400	56
			Fishery Ponds / Cattle Pond	6	6	15
			Land Development & other Soil Moisture Conservation Activities	12	183	33
			Creation of Vegetative Cover	6	6	6.96
			Sub Total	**38**	**605**	**127.96**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	7	7	7
			Renovation & Maintenance of Irrigation canals & Drains	8	87	14.34
			Sub Total	**15**	**94**	**21.34**
			Total	**53**	**699**	**149.3**
Total Estimated Cost for 2018-19 under Soil Conservation Department						**Rs 683.801**

DRDA

Block	Concerned Ministry / Department	Component	Activity	Qty / No.s	Command Area	Implementation Year	Estimated Cost
Algapur	DoLR-DoRD	Convergence with MGNERGA	Land Development	82	1244	5 yr	224
	DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	39	39	5 yrs	45.24
	DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	34	542	5 yrs	89.32
	DoLR-DoRD	Convergence with MGNERGA	Big Culvert	1 No.	400 bigha	3rd yr	7
	DoLR-DoRD	Convergence with MGNERGA	Small Culvert	5 No.s	400 bigha	3rd yr	20
Hailakandi	DoLR-DoRD	Convergence with MGNERGA	Land Development	63	1029	5 Yrs	185.25
	DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	55	55	5 Yrs	63.8
	DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	32	464	5 Yrs	76.62
Lala	DoLR-DoRD	Convergence with MGNERGA	Land Development	87	1605	5 yrs	288.9
	DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	40	40	5 yrs	46.4
	DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	30	428	5 yrs	70.62
Katlicherra	DoLR-DoRD	Convergence with MGNERGA	Land Development	66	1070	5 yr	192.6
	DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	85	85	5 yr	98.6
	DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	30	428	5 yr	70.62
South Hailakandi	DoLR-DoRD	Convergence with MGNERGA	Land Development	81	1222	5 yrs	220
	DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	42	42	5 yrs	48.72
	DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	46	579	5 yrs	95.62
Total Estimated Cost under DRDA for 2018-19							**1843.31**

Water Resource Department

Block	Concerned Ministry / Dept.	Component	Activity	Total Number / Capacity (Cum)	Estimated area to be covered	Period of Implementation (5/7 years)	Estimated Cost (in Lac)
Algapur	MOWR	Har Khet Ko Pani	Dreadging of Katakhal river	1	100 km	3	10000
Hailakandi			Dreadging of Dhaleswari River	1	50 km	3	

2019 - 20 Irrigation plan of Hailakandi District

Irrigation Department

Block	GP/Village	Concerned Ministry / Dept.	Component	Activity	Total Number / Capacity (Cum)	Command Area/ Irrigation Potential (Ha)	Period of Implementation (5/7 Years)	Estimated Cost (in Lac.)
1	2	3	4	5	6	7	8	9
Hailakandi	Kanchanpur G.P)	MOWR	AIBP	**Surface Minor Irrigation (ELIS) Solar**	1 Nos./15 H.P	25	1 Yrs	50.00
	Matijuri Paikan GP			**DO**	1 Nos./15 H.P	22	1 Yrs	65.00
Algapur	Algapur GP			**DO**	1 Nos./15 H.P	26	1 Yrs	60.00
South Hailakanadi	Killarbag Jalnacherra GP			**DO**	1 Nos./15 H.P	25	1 Yrs	70.00
Katlivherra	Vill:-Rongpur Pt.-VIII Sahabad GP Mini Solar Pump Scheme(3HP)			**DO**	1 Nos./15 H.P	21	1 Yrs	65.00
	Rongpur Pt.-IV Sahabad GP(2 Nos) Mini Solar Pump Scheme(3HP)			**DO**	1 Nos./15 H.P	20	1 Yrs	60.00

370.00

Sl No	Name of the Dev. Block/Sub-District	Concerned Ministry/Development	Component	Activity	Name of Irrigation Scheme	Nos. Of Irrigation Scheme	Command Area/Irrigation Potential (Ha)	Period of Implemetation	Estimated Cost (Rs. In Lakhs)
1	2	3	4	5	6	7	8	9	10
1	Lala				D.T.W. Scheme in Dakhin Jasnabad Pt-I (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
2					D.T.W. Scheme in Saralipur (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
3					D.T.W. Scheme in Jalalpur (Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
4		MOWR	Her Kheth Ko Pani Do	Ground Water Development	D.T.W. Scheme in Balicherra (Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
5					D.T.W. Scheme in Dhalcherra (Solar)	1 Nos/ 15 HP	19	1 yrs	65.00
6					D.T.W. Scheme in Lalacherra Vernerpur GP (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
7					D.T.W. Scheme in Bangalpur (Solar)	1 Nos/ 15 HP	27	1 yrs	65.00
8					D.T.W. Scheme in Koiya (Solar)	1 Nos/ 15 HP	24	1 yrs	65.00
9					D.T.W. Scheme in Ramchandi (Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
10					D.T.W. Scheme in Saralipur (Solar)	1 Nos/ 15 HP	23	1 yrs	65.00
11		MOWR	Her Kheth Ko Pani Do	Ground Water Development	D.T.W. Scheme in Dhanipur (Solar)	1 Nos/ 15 HP	21	1 yrs	65.00
12					D.T.W. Scheme in Mahammadpur-Joykrishnapur G.P. (Solar)	1 Nos/ 15 HP	28	1 yrs	65.00
13					LIS Scheme in Mahammadpur-Joykrishnapur G.P. (Solar)	1	100	1 yrs	180.00

14					D.T.W. Scheme in Rongpur Pt-V (Solar)	1 Nos/ 15 HP	15	1 yrs	65.00
15					D.T.W. Scheme in Chandrapur G.P. (Solar)	1 Nos/ 15 HP	17	1 yrs	65.00
16					D.T.W. Scheme in Aynarkhal G.P.(Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
17					D.T.W. Scheme in Nichintapur G.P.(Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
18					D.T.W. Scheme in Bawarghat G.P.(Solar)	1 Nos/ 15 HP	24	1 yrs	65.00
19					D.T.W. Scheme in Purbakittarbond G.P.(Solar)	1 Nos/ 15 HP	23	1 yrs	65.00
20		MOWR	Her Kheth Ko Pani Do	Ground Water Development	D.T.W. Scheme in Kalacherra Sudarshanpur G.P.(Solar)	1 Nos/ 15 HP	20	1 yrs	65.00
21					D.T.W. Scheme in Nimaichandpur G.P.(Solar)	1 Nos/ 15 HP	21	1 yrs	65.00
22					D.T.W. Scheme in Barbond G.P.(Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
23					D.T.W. Scheme in Lalamuk G.P.(Solar)	1 Nos/ 15 HP	22	1 yrs	65.00
Total							**587**		**1610.00**

Agriculture Department

BLOCK	GP / VILLAGE	Concerned Ministry / Department	Component	ACTIVITY	Total No. / Capacity (Cum)	COMMAND AREA	Estd.Cost (in Lakhs)
Hailakandi	Bashdahar Barhailakandi GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	0	0	0
	Narayanpur Tupkana GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	3	75	22.5
	Boalipar GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	0	0	0
	Kanchanpur GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	1	25	7.5
	Ujankupa GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	0	0	0
	Serispur GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	0	0	0
	Lala:Mahammadpur Joy Krishnapur GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	1	25	7.5
Lala	Lalacherra Vernerpur GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	0	0	0
	Niz Vernerpur Sarbanandapur GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	1	25	7.5
	Sudarshanpur Kalacherra GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	1	25	7.5
	Chandrapur GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	1	25	7.5
	Purbo Kittarbond Rajyeswarpur GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	4	100	30
	Koyah Ramchandi GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	0	0	0
	Aynakhal TE GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	1	25	7.5
	Monacherra GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	2	50	15
	Bowerghat GP	MOA & FW DAC & FW	Her Khet Ko Pani	**DTW (Electrical)**	0	0	0
Algapur	Panchgram GP	MOA & FW DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Kalinagar GP	MOA & FW DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Uttar Kanchanpur GP	MOA & FW DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Chiparsangan GP	MOA & FW DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0

	Chandipur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Bashbari GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Mohanpur Burniebraes GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Mohanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	3	30	12
	Uttar Narayanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Paschim Mohanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Saidbond GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
Hailakandi	Bashdahar Barhailakandi GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Sudarshanpur Bandukmara GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Bahadurpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	3	30	12
	Matijuri Paikan GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Narayanpur Tupkana GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Boalipar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Bhatirkupa GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Ujankupa GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Gangpar Dumkar Laxmirbond GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Ratanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	3	30	12
	Rangauti GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	5	50	20
Lala	Rajyeswarpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Jyotsnabad Umednagar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Lalamukh GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Sudarshanpur Kalacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Nichintapur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Monacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Borbond GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Bowerghat GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Harishnagar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	5	50	20
	Sahabad GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	4	40	16
	Sonacherra Rupacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Dinanathpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Appin Rangpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Dhalai Malai GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Katlicherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
South Hailakandi	Palaycherra Sultanicherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
Algapur:	Mohanpur Burnebrease GP	MOA & FW	DAC & FW	Her Khet Ko Pani	**Spillway**	1		4

	Mohanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	**Spillway**	0		0
	Chandipur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	**Spillway**	0		0
	Bashbari GP	MOA & FW	DAC & FW	Her Khet Ko Pani	**Spillway**	0		0
Hailakandi:	Sudarshanpur Bandukmara GP	MOA & FW	DAC & FW	Her Khet Ko Pani	**Spillway**	0		0
	Bhatirkupa GP	MOA & FW	DAC & FW	Her Khet Ko Pani	**Spillway**	1		4
	Ujankupa GP	MOA & FW	DAC & FW	Her Khet Ko Pani	**Spillway**	0		0
	Nitainagar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	**Spillway**	1		4
Lala:	Lalacherra Vernerpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Rajyeswarpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Lalamukh GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Sudarshanpur Kalacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	2		8
	Aynakhal TE GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Borbond GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Bowerghat GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Harishnagar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Sonacherra Rupacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Dinanathpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Appin Rangpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Katlicherr GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
Algapur	Algapur	MOA & FW	DAC & FW	Her Khet Ko Pani	Electrical LLP	29	58	7.685
Hailkakandi	Hailkakandi	MOA & FW	DAC & FW	Her Khet Ko Pani	Electrical LLP	28	56	7.42
Lala	Lala	MOA & FW	DAC & FW	Her Khet Ko Pani	Electrical LLP	38	76	10.07
Katlicherra	Katlicherra	MOA & FW	DAC & FW	Her Khet Ko Pani	Electrical LLP	19	38	5.035
South Hailakandi	South Hailakandi	MOA & FW	DAC & FW	Her Khet Ko Pani	Electrical LLP	32	64	8.48
Total Estimated Cost for 2019-20 under Agriculture Department								**411.19**

Block	gp / village	Minsitry / Dept		Component	Activity	Total Nos./ Capacity(cum)	Command Area	Estd Cost (in lakhs)
Hailakandi:	Sudarshanpur Bandukmara GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	1	2	4
	Boalipar GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	1	2	4
	Bhatirkupa GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	0	0	0
	Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	3	6	12
	Sirispur GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	1	2	4
	Gangpar Dumkar Lakhirbond GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	2	4	8
	Ratanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	4	8	16

	Rangauti GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	6	12	24
	Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Sprinkler Irrigation	4	8	8
Algapur:	Panchgram GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Kalinagar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Uttar Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Bakrihowar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Chiporsangan GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Chandipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	11	11	66
	Bashbari GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Algapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	6	6	36
	Mohanpur Burniebraes GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Mohanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	9	9	54
	Uttar Narayanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	6	6	36
	Paschim Mohanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Saidbond GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
Hailakandi	Basdohar Borhailakandi GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	7	7	42
	Sudarsanpur Bandukmara GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	5	5	30
	Bahadurpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	5	5	30
	Narayanpur Tupkana GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	12	12	72
	Boalipar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	21	21	126
	Bhatirkupa GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Ujankupa GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	5	5	30
	Serispur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Gangpar Dumkar Laxmirbond GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	27	27	162
	Nitainagar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Ratanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	11	11	66
	Rangauti GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	11	11	66
Lala	Mohammadpur Joy Krishnapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Lalacherra Vernerpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Niz Vernerpur Sarbanandapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Jyotsnabad Umednagar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
	Lalamukh GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
	Sudarsanpur Kalacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Nimaichanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	6	6	36
	Chandrapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Purbo Kittarbond Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Koyah Ramchandi GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6

	Aynakhal TE GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Nichintapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Monacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
	Borbond GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Bowerghat GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Dhalcherra Bilaipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
	Harishnagar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	0	0	0
	Sahabad GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	5	5	30
	Katlicherra	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Dinanathpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Appin Rangpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
	Dholai Molai GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Katlicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
South Hailakandi	Gharmura Bagcherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	KIllarbak Jhalnacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Jamira GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	6	6	36
	Baldabaldi Nandagram GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	6	6	36
	Polaycherra Sultanicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Dariarghat Karicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Manipur Niskar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Baruncherra Kukicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Dhalai Bagan GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
Algapur	Panchgram GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4
	Uttar Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2
	Chiporsangan GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	7	3.5	11.9
	Chandipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2
	Bashbari GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Mohanpur Burniebraes GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Paschim Mohanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
Hailakandi	Basdohar Borhailakandi GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Sudarsanpur Bandukmara GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Bahadurpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Bhatirkupa GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2
	Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	14	7	23.8
	Ujankupa GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	3	1.5	5.1
	Serispur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	3	1.5	5.1
	Ratanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	9	4.5	15.3
	Rangauti GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	12	6	20.4
Lala	Mohammadpur Joy Krishnapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	3	1.5	5.1

	Lalacherra Vernerpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Niz Vernerpur Sarbanandapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4
	Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	1	0.5	1.7
	Lalamukh GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Sudarsanpur Kalacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	7	3.5	11.9
	Nimaichanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4
	Chandrapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	3	1.5	5.1
	Purbo Kittarbond Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	0	0	0
	Koyah Ramchandi GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Aynakhal TE GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Nichintapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	1	0.5	1.7
	Monacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	1	0.5	1.7
	Borbond GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Bowerghat GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4
	Dhalcherra Bilaipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	0	0	0
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4
	Sahabad GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Sonacherra Rupacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Dinanathpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2
	Appin Rangpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Dholai Molai GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Katlicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4
South Hailakandi	Gharmura Bagcherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2
	Killarbak Jhalnacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	13	6.5	22.1
	Jamira GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	19	9.5	32.3
	Baldabaldi Nandagram GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Polaycherra Sultanicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Dariarghat Karicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	9	4.5	15.3
	Manipur Niskar GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2
	Baruncherra Kukicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Dhalai Bagan GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
Total Estimated Cost for 2019-20 under Agriculture Department						**615**	**506**	**2511.4**

Soil Conservation

Block	Concerned Ministry / Department	Component	Activities	2019-20		
				Phy.		Fin.
				No.	C. Area/ Irri. Potl. (Ha.)	(Rs. in Lakhs)
Algapur	DOLR	Watershed	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	9	9	15.3
			Check Dams	4	400	56
			Fishery Ponds / Cattle Pond	5	5	12.5
			Land Development & other Soil Moisture Conservation Activities	11	187	33.6
			Creation of Vegetative Cover	6	6	6.96
			Sub Total	**35**	**607**	**124.36**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	8	8	8
			Renovation & Maintenance of Irrigation canals & Drains	5	82	13.39
			Sub Total	**13**	**90**	**21.39**
			Total	**48**	**697**	**145.75**
Hailakandi	DOLR	Watershed	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	7	7	11.9
			Check Dams	3	300	42
			Fishery Ponds / Cattle Pond	6	6	15
			Land Development & other Soil Moisture Conservation Activities	9	154	27.78
			Creation of Vegetative Cover	8	8	9.28
			Sub Total	**33**	**475**	**105.96**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	6	6	6
			Renovation & Maintenance of Irrigation canals & Drains	5	70	11.5
			Sub Total	**11**	**76**	**17.5**
			Total	**44**	**551**	**123.46**
Katlicherra	DOLR	Watershed	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	6	6	10.2
			Check Dams	4	400	56
			Fishery Ponds / Cattle Pond	4	4	10
			Land Development & other Soil Moisture Conservation Activities	12	160.5	28.89
			Creation of Vegetative Cover	12	12	13.92

			Sub Total	**38**	**582.5**	**119.01**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	9	9	9
			Renovation & Maintenance of Irrigation canals & Drains	4	64.2	10.593
			Sub Total	**13**	**73.2**	**19.593**
			Total	**51**	**655.7**	**138.603**
Lala	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	10	10	17
			Check Dams	3		42
			Fishery Ponds / Cattle Pond	5	5	12.5
			Land Development & other Soil Moisture Conservation Activities	14	240.75	43.335
			Creation of Vegetative Cover	6	6	6.96
			Sub Total	**38**	**261.75**	**121.795**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	10	10	10
			Renovation & Maintenance of Irrigation canals & Drains	5	64.2	10.593
			Sub Total	**15**	**74.2**	**20.593**
			Total	**53**	**335.95**	**142.388**
South Hailakandi	**DOLR**	**Watershed**	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	10	10	17
			Check Dams	4	400	56
			Fishery Ponds / Cattle Pond	6	6	15
			Land Development & other Soil Moisture Conservation Activities	12	183	33
			Creation of Vegetative Cover	6	6	6.96
			Sub Total	**38**	**605**	**127.96**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	7	7	7
			Renovation & Maintenance of Irrigation canals & Drains	8	87	14.34
			Sub Total	**15**	**94**	**21.34**
			Total	**53**	**699**	**149.3**
Total Estimated Cost for 2019-20 under Soil Conservation Department						**Rs 699.501**

DRDA

Block	Concerned Ministry / Department	Component	Activity	Total Number / Capacity (cum)	Command Area	Implementation Year	Estimated Cost (Rs. In Lakhs)
Algapur	DoLR-DoRD	Convergence with MGNERGA	Land Development	82	1244	5 yr	224
	DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	39	39	5 yrs	45.24
	DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	34	542	5 yrs	89.32
Hailakandi	DoLR-DoRD	Convergence with MGNERGA	Land Development	63	1029	5 Yrs	185.25
	DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	55	55	5 Yrs	63.8
	DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	32	464	5 Yrs	76.62
Lala	DoLR-DoRD	Convergence with MGNERGA	Land Development	87	1605	5 yrs	288.9
	DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	40	40	5 yrs	46.4
	DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	30	428	5 yrs	70.62
Katlicherra	DoLR-DoRD	Convergence with MGNERGA	Land Development	66	1070	5 yr	192.6
	DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	85	85	5 yr	98.6
	DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	30	428	5 yr	70.62
South Hailakandi	DoLR-DoRD	Convergence with MGNERGA	Land Development	81	1222	5 yrs	220
	DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	42	42	5 yrs	48.72
	DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	46	579	5 yrs	95.62
	Total Estimated Cost under DRDA for 2019-20						**1816.31**

2020 - 21 Irrigation plan of Hailakandi District

NABCONS

District Irrigation Plan, Hailakandi

Irrigation Department

Block	GP/Village	Concerned Ministry / Dept.	Component	Activity	Total Number / Capacity (Cum)	Command Area/ Irrigation Potential (Ha)	Period of Implementation (5/7 Years)	Estimated Cost (in Lac.)
1	2	3	4	5	6	7	8	9
Hailakandi	Nitainagar G.P)	MOWR	AIBP	Surface Minor Irrigation (ELIS) Solar	1 Nos /15 H.P	25	1 Yrs	70.00
	Kanchanpur G.P)			DO	1 Nos /15 H.P	22	1 Yrs	60.00
Algapur	Chandipur G.P			DO	1 Nos /15 H.P	20	1 Yrs	65.00
South Hailakandi	Dhariarghat Karicherra G.P)			DO	1 Nos /15 H.P	25	1 Yrs	60.00
								255.00

Sl No	Name of the Dev. Block/Sub-District	Concerned Ministry/Development	Component	Activity	Name of Irrigation Scheme	Nos. Of Irrigation Scheme	Command Area/Irrigation Potential (Ha)	Period of Implemetation	Estimated Cost (Rs. In Lakhs)
1	2	3	4	5	6	7	8	9	10
1					D.T.W. Scheme in Chandrapur G.P. (Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
2					D.T.W. Scheme in Nichintapur G.P.(Solar)	1 Nos/ 15 HP	22	1 yrs	65.00
3					D.T.W. Scheme in Bawarghat G.P.(Solar)	1 Nos/ 15 HP	21	1 yrs	65.00
4					D.T.W. Scheme in Purbakittarbond G.P.(Solar)	1 Nos/ 15 HP	25	1 yrs	65.00
5					D.T.W. Scheme in Barbond G.P.(Solar)	1 Nos/ 15 HP	18	1 yrs	65.00
6					D.T.W. Scheme in Lalamuk G.P.(Solar)	1 Nos/ 15 HP	15	1 yrs	65.00
Total							**119**		**390.00**

Agriculture Department

BLOCK	GP / VILLAGE	Concerned Ministry / Dept.	Component	Activity	Total No. / Capacity (cum)	Command Area	Estd. Cost (Rs. In Lakh)
Hailakandi	Bashdahar Barhailakandi GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	0	0	0
	Narayanpur Tupkana GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	2	50	15
	Boalipar GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	0	0	0
	Kanchanpur GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	0	0	0
	Ujankupa GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	0	0	0
	Serispur GP	MOA & FW DAC & FW	Her Khet Ko Pani	DTW (Electrical)	0	0	0

	Lala:Mahammadpur Joy Krishnapur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	DTW (Electrical)	1	25	7.5
Lala	Lalacherra Vernerpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	DTW (Electrical)	0	0	0
	Niz Vernerpur Sarbanandapur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	DTW (Electrical)	0	0	0
	Sudarshanpur Kalacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Chandrapur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	DTW (Electrical)	0	0	0
	Purbo Kittarbond Rajyeswarpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	DTW (Electrical)	4	100	30
	Koyah Ramchandi GP	MOA & FW	DAC & FW	Her Khet Ko Pani	DTW (Electrical)	0	0	0
	Aynakhal TE GP	MOA & FW	DAC & FW	Her Khet Ko Pani	DTW (Electrical)	1	25	7.5
	Monacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	DTW (Electrical)	2	50	15
	Bowerghat GP	MOA & FW	DAC & FW	Her Khet Ko Pani	DTW (Electrical)	0	0	0
Algapur	Panchgram GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Kalinagar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Uttar Kanchanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Chiparsangan GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Chandipur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Bashbari GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Mohanpur Burniebraes GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Mohanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	3	30	12
	Uttar Narayanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Paschim Mohanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Saidbond GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
Hailakandi	Bashdahar Barhailakandi GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Sudarshanpur Bandukmara GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Bahadurpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Matijuri Paikan GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Narayanpur Tupkana GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Boalipar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Bhatirkupa GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Ujankupa GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Gangpar Dumkar Laxmirbond GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Ratanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	3	30	12
	Rangauti GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	5	50	20
Lala	Rajyeswarpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Jyotsnabad Umednagar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Lalamukh GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Sudarshanpur Kalacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Nichintapur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0

	Monacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Borbond GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Bowerghat GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
	Harishnagar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	5	50	20
	Sahabad GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	4	40	16
	Sonacherra Rupacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Dinanathpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Appin Rangpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	2	20	8
	Dhalai Malai GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
	Katlicherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	0	0	0
South Hailakandi	Palaycherra Sultanicherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Diesel Lift Irrigation	1	10	4
Algapur:	Mohanpur Burnebrease GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Mohanpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Chandipur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Bashbari GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
Hailakandi:	Sudarshanpur Bandukmara GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Bhatirkupa GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Ujankupa GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Nitainagar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
Lala:	Lalacherra Vernerpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Rajyeswarpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Lalamukh GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Sudarshanpur Kalacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	2		8
	Aynakhal TE GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Borbond GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Bowerghat GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Harishnagar GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Sonacherra Rupacherra GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Dinanathpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	1		4
	Appin Rangpur GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
	Katlicherr GP	MOA & FW	DAC & FW	Her Khet Ko Pani	Spillway	0		0
Algapur	Algapur	MOA & FW	DAC & FW	Her Khet Ko Pani	Electrical LLP	29	58	7.685
Hailkakandi	Hailkakandi	MOA & FW	DAC & FW	Her Khet Ko Pani	Electrical LLP	28	56	7.42
Lala	Lala	MOA & FW	DAC & FW	Her Khet Ko Pani	Electrical LLP	38	76	10.07

Katlicherra	Katlicherra	MOA & FW	DAC & FW	Her Khet Ko Pani	Electrical LLP	19	38	5.035
South Hailakandi	South Hailakandi	MOA & FW	DAC & FW	Her Khet Ko Pani	Electrical LLP	32	64	8.48
Total								**329.19**

Block	GP / village	Concerned Minsitry / Dept		Component	Activity	Total Nos./Capacity (cum)	Command Area	Estd Cost (Rs. In Lakh)
Hailakandi:	Sudarshanpur Bandukmara GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	0	0	0
	Boalipar GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	1	2	4
	Bhatirkupa GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	0	0	0
	Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	3	6	12
	Sirispur GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	1	2	4
	Gangpar Dumkar Lakhirbond GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	2	4	8
	Ratanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	4	8	16
	Rangauti GP	MOA & FW	DAC & FW	Per Drop More Crop	Drip Irrigation	6	12	24
	Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Sprinkler Irrigation	4	8	8
Algapur:	Panchgram GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Kalinagar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Uttar Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	7	7	42
	Bakrihowar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	7	7	42
	Chiporsangan GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	9	9	54
	Chandipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Bashbari GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	6	6	36
	Algapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Mohanpur Burniebraes GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	10	10	60
	Mohanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	6	6	36
	Uttar Narayanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	6	6	36
	Paschim Mohanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Saidbond GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
Hailakandi	Basdohar Borhailakandi GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	7	7	42
	Sudarsanpur Bandukmara GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Bahadurpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	5	5	30
	Narayanpur Tupkana GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	12	12	72
	Boalipar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	21	21	126
	Bhatirkupa GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	9	9	54
	Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	8	8	48
	Ujankupa GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	5	5	30
	Serispur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	6	6	36

	Gangpar Dumkar Laxmirbond GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	27	27	162
	Nitainagar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Ratanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	8	8	48
	Rangauti GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	8	8	48
Lala	Mohammadpur Joy Krishnapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Lalacherra Vernerpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Niz Vernerpur Sarbanandapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Jyotsnabad Umednagar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
	Lalamukh GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
	Sudarsanpur Kalacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Nimaichanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	6	6	36
	Chandrapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Purbo Kittarbond Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Koyah Ramchandi GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
	Aynakhal TE GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Nichintapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Monacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
	Borbond GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Bowerghat GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Dhalcherra Bilaipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
	Harishnagar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	0	0	0
	Sahabad GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	5	5	30
	Katlicherra	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Dinanathpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Appin Rangpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
	Dholai Molai GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	3	3	18
	Katlicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
South Hailakandi	Gharmura Bagcherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	KIllarbak Jhalnacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Jamira GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Baldabaldi Nandagram GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	6	6	36
	Polaycherra Sultanicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Dariarghat Karicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Manipur Niskar GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	2	2	12
	Baruncherra Kukicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	4	4	24
	Dhalai Bagan GP	MOA & FW	DAC & FW	Per Drop More Crop	Water Harvesting Structure	1	1	6
Algapur	Panchgram GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4

	Uttar Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2
	Chiporsangan GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	7	3.5	11.9
	Chandipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2
	Bashbari GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Mohanpur Burniebraes GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Paschim Mohanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
Hailakandi	Basdohar Borhailakandi GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Sudarsanpur Bandukmara GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Bahadurpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Bhatirkupa GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2
	Kanchanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	14	7	23.8
	Ujankupa GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	3	1.5	5.1
	Serispur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	3	1.5	5.1
	Ratanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Rangauti GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	12	6	20.4
Lala	Mohammadpur Joy Krishnapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	3	1.5	5.1
	Lalacherra Vernerpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Niz Vernerpur Sarbanandapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4
	Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	1	0.5	1.7
	Lalamukh GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Sudarsanpur Kalacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	7	3.5	11.9
	Nimaichanpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Tantoo Dhanipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	1	0.5	1.7
	Chandrapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	3	1.5	5.1
	Purbo Kittarbond Rajyeswarpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	0	0	0
	Koyah Ramchandi GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Aynakhal TE GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Nichintapur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	0	0	0
	Monacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	0	0	0
	Borbond GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Bowerghat GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4
	Dhalcherra Bilaipur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	0	0	0
Katlicherra	Rangabak GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4
	Sahabad GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Sonacherra Rupacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Dinanathpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Appin Rangpur GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Dholai Molai GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Katlicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	2	1	3.4
South	Gharmura Bagcherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2

Hailakandi	Killarbak Jhalnacherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	13	6.5	22.1
	Jamira GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	18	9	30.6
	Baldabaldi Nandagram GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	7	3.5	11.9
	Polaycherra Sultanicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
	Dariarghat Karicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	8	4	13.6
	Manipur Niskar GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	6	3	10.2
	Baruncherra Kukicherra GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	5	2.5	8.5
	Dhalai Bagan GP	MOA & FW	DAC & FW	Per Drop More Crop	Ring Well with small diesel pump	4	2	6.8
Total						**567**	**462**	**2268.4**

SOIL CONSERVATION

Block	Concerned Ministry / Dept.	Component	Activities	2020-21		
				Phy.		Fin.
				No.	C. Area/ Irri. Potl. (Ha.)	(Rs. in Lakhs)
Algapur	DOLR	Watershed	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	9	9	15.3
			Check Dams	3	300	42
			Fishery Ponds / Cattle Pond	6	6	15
			Land Development & other Soil Moisture Conservation Activities	11	187	33.6
			Creation of Vegetative Cover	5	5	5.8
			Sub Total	**34**	**507**	**111.7**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	8	8	8
			Renovation & Maintenance of Irrigation canals & Drains	6	81	13.42
			Sub Total	**14**	**89**	**21.42**
			Total	**48**	**596**	**133.12**
Hailakandi	DOLR	Watershed	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	8	8	13.6
			Check Dams	2	200	28
			Fishery Ponds / Cattle Pond	6	6	15
			Land Development & other Soil Moisture Conservation Activities	8	121	21.63
			Creation of Vegetative Cover	9	9	10.44
			Sub Total	**33**	**344**	**88.67**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	6	6	6
			Renovation & Maintenance of Irrigation canals & Drains	4	53	8.92
			Sub Total	**10**	**59**	**14.92**
			Total	**43**	**403**	**103.59**

Katlicherra	DOLR	Watershed	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	6	6	10.2
			Check Dams	5	500	70
			Fishery Ponds / Cattle Pond	6	6	15
			Land Development & other Soil Moisture Conservation Activities	12	160.5	28.89
			Creation of Vegetative Cover	15	15	17.4
			Sub Total	**44**	**687.5**	**141.49**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	9	9	9
			Renovation & Maintenance of Irrigation canals & Drains	7	64.2	10.593
			Sub Total	**16**	**73.2**	**19.593**
			Total	**60**	**760.7**	**161.083**
Lala	DOLR	Watershed	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	11	11	18.7
			Check Dams	3		42
			Fishery Ponds / Cattle Pond	6	6	15
			Land Development & other Soil Moisture Conservation Activities	14	240.75	43.335
			Creation of Vegetative Cover	6	6	9.96
			Sub Total	**40**	**263.75**	**128.995**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	10	10	10
			Renovation & Maintenance of Irrigation canals & Drains	5	64.2	10.593
			Sub Total	**15**	**74.2**	**20.593**
			Total	**55**	**337.95**	**149.588**
South Hailakandi	DOLR	Watershed	**Newly Created WHS and Other Soil Moisture Conservation Activities**			
			Farm Pond	10	10	17
			Check Dams	3	300	42
			Fishery Ponds / Cattle Pond	5	5	12.5
			Land Development & other Soil Moisture Conservation Activities	13	184	33
			Creation of Vegetative Cover	7	7	8.12
			Sub Total	**38**	**506**	**112.62**
			Renovated WHS and other Soil Moisture Conservation Activities			
			Farm Pond	6	6	6
			Renovation & Maintenance of Irrigation canals & Drains	8	86	14.36
			Sub Total	**14**	**92**	**20.36**
			Total	**52**	**598**	**132.98**
Total Estimated Cost under Soil Conservation for 2020-21						**Rs 680.361**

DRDA

Block	Concerned Ministry / Department	Component	Activity	Total No.s /Capacity (cum)	Command Area	Implementation Year	Estimated Cost (Rs. In Lakh)
Algapur	DoLR-DoRD	Convergence with MGNERGA	Land Development	82	1244	5 yr	224
	DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	39	39	5 yrs	45.24
	DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	34	542	5 yrs	89.32
Hailakandi	DoLR-DoRD	Convergence with MGNERGA	Land Development	63	1029	5 Yrs	185.25
	DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	55	55	5 Yrs	63.8
	DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	32	464	5 Yrs	76.62
Lala	DoLR-DoRD	Convergence with MGNERGA	Land Development	87	1605	5 yrs	288.9
	DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	40	40	5 yrs	46.4
	DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	30	428	5 yrs	70.62
Katlicherra	DoLR-DoRD	Convergence with MGNERGA	Land Development	66	1070	5 yr	192.6
	DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	85	85	5 yr	98.6
	DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	30	428	5 yr	70.62
South Hailakandi	DoLR-DoRD	Convergence with MGNERGA	Land Development	81	1222	5 yrs	220
	DoLR-DoRD	Convergence with MGNERGA	Creation of Vegetative Cover	42	42	5 yrs	48.72
	DoLR-DoRD	Convergence with MGNERGA	Renovation & Maintenance of Irrigation Canal & Drains	46	579	5 yrs	95.62
	Total Estimated Cost of DRDA under 2020-21						**1816.31**